

CLEAN TECH

INTELLIGENT CLEANING



UNCOMPROMISING JET-TO-JET CLEANING

A perfect concept

visualizes:

- innovative
- efficient
- flexible

Wedger
GmbH

SPECIAL SERVICE FOR PAPER INDUSTRIES

Ideas prepare the ground

CLEAN TECH

INTELLIGENT CLEANING



OTHERS

CLEAN TECH



Our philosophy – Uncompromising Jet-to-Jet cleaning

Solid firm principles and exceptional sales concepts – Weger GmbH a leading medium-sized company. Humanity, helpfulness and a customer centered management are building a stable foundation. Motivated and creative employees are committed to innovation and quality are our capital. Full service – from Innovation to production to marketing – of top quality conditioning systems „Made in Germany“. We build on dynamic technologies and adopted this approach for over 20 years. Since 1986 Weger GmbH is the general agent of leading papermachine clothing supplier. Further developments of forming fabrics and press felts leads to higher requirements in conditioning systems. To fulfill paper maker's requirements we introduced our first CLEAN TECH® linear electronic oscillator (LEO) into the market. For the first time the wire's and felt's cleaning have been smooth and free of streaks. But most of all controlled, realized by our Jet-to-Jet technology. 2-Sigma values became more stable and the clothing's lifetime improved remarkably. Weger GmbH has been the first, that made electronic oscillators at paper machines popular. With our revolutionary technology we set milestones! Today we have more than 500 CLEAN TECH® units running.

A perfect Concept – CLEAN TECH®

Since many years our core business is paper machine clothing. Our engineers are contributed to a constant on-going development and increasing of efficiency. Our deep knowledge in clothing is your advantage!

CLEAN TECH® linear electronic technology guaranties the perfect oscillation at any paper machine speed. In the shortest period of time the whole clothing's surface is cleaned.

CLEAN TECH „Conept InLine 250“ Intelligent – innovative – simple!

Our CLEAN TECH INLINE cleaning concept was specifically developed to be suitable for all clothing widths. Its long service life, and the possibility of installing, cleaning and servicing the system without machine stoppages, make the INLINE CONCEPT an indispensable partner. Energy-saving and cost-effective in terms of expended time and maintenance, INLINE is an investment in the future.

Basic module:
cage and
bearing
blocks



Module
High pressure
shower pipe:
Nozzle holders
at M30x1,5



Module
oscillator
LEO IL
LEO 107
LEO DCP



CLEAN TECH building blocks – Modular and efficient!

Best conditioning of suction rolls and clothing by Jet-to-Jet technology.

Higher Lifetime of PM-clothing improves productivity and efficiency.

The **intelligent construction** guaranties a fast installation and service during running production.

The **open system** avoids blockages due to contamination as seen on pipe-in-pipe solutions.



CLEAN TECH IC – Nozzle with a future

Our new CLEAN TECH IC nozzles were specifically developed for all common shower pipes (nozzle thread M30x1,5 and M32x1,5) with and without brush cleaning. This specially developed, superfine polished ceramic material made of zirconium-aluminum oxide guarantees optimum jet quality. The material hardness (Mohs hardness 9) is ensured by the special cross-linking of the ceramic spherules. The long service life and simple handling make these nozzles an indispensable partner for cleaning your paper machine clothing.

Protection by utility patents: the nozzle system "IC" is a registered trade mark at the German office for patents and brands. It is protected by the protection by the utility model (20 2007 003 854.2).

■ TIME SAVINGS

Simple handling – our nozzles can be installed and removed in just two steps.

■ COST SAVINGS

Long service life – and you save up to 35% starting from the first reorder.



CLEAN TECH oscillators – Precision has a name!

LEO_107 / 107 P / IL

The used parts are positioned precise and on the spot by the stepping motor control unit. The input of all parameters is simple in handling and clearly arranged. The application is possible at any paper machine, whatever year of construction. Although designed as a "stand alone"- system, simple visualizations at a process control system (start, stop and error messages) are possible.

LEO_DCP

A real innovation is our oscillator "LEO DCP". No external control unit is needed. The brush-less servo motor is controlled by Siemens S7 profibus technology. Due to data process coupling communication with other bus controlled process control systems is possible. For noscillators just one control unit (e.g. CPU S7-314) is needed. Long time planning reliability is secure due to the usage of up to date automation components.

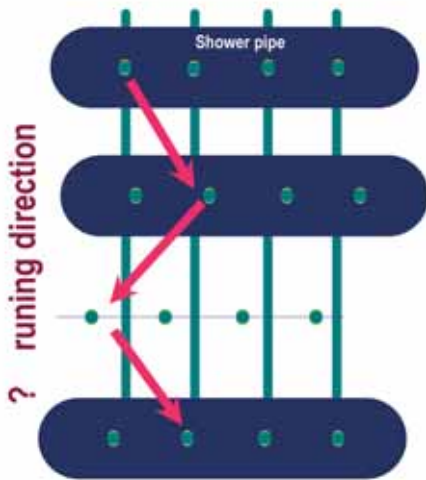
Option "A": a Siemens S7 system is already installed. Vacant recourses could be used. Settings and control is carried out at the master display. Investments could be low as possible.

Option "B": if no process control system is on site, or an already installed system should not be used, all CLEAN TECH S7 components are separated and connectable by DP coupling. Settings and control is done via Siemens panel e.g. "OP 3" or "OP 277".



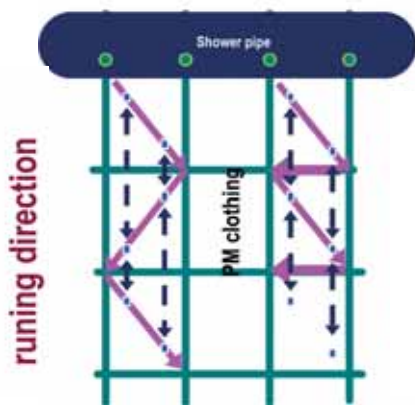
■ CLEAN TECH

Service Center
We take service seriously-
from planning to realization.



A holistic system – simply ! Variable returning points

A streaky clothing is not just a cosmetic problem. It is a result of uncontrolled conditioning. To avoid streaks on the one hand the oscillation speed has to be variable and related to the PM's speed signal. On the other hand the returning points of the shower pipe have to be variable. The CLEAN TECH® software dislocates the returning points controlled at a certain number of loops to drive- and tender side. Result: NO stamping.



Fast back stroke

The contamination at the clothing's edge areas, especially at Pick-Up positions is very high. As well the felts are sensitive for too high cleaning water capacity. Additional shower pipes could eliminate the contamination but create other problems due to too much water at the edges. With CLEAN TECH®'s fast back stroke the oscillator goes back with higher speed to its starting position after every complete cleaning procedure. Edge areas are cleaned faster. NO more problems.

CLEAN TECH® – Advantages at one glance:

- Streak free clothing, therefore no more "high wear areas" at the clothing.
- Savings in water consumption due to reducing of water pressure and nozzle diameter
- Improved cmd profiles
- No edges problems
- Freely programmable control unit
- Possible increasing of clothing life time

CLEAN TECH

INTELLIGENT CLEANING

Less water consumption –
best conditioning efficiency!

**ASK FOR MORE –
ASK FOR CLEAN TECH**

weger
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