

TRESU Group

Founded in 1981 in Denmark, the TRESU Group has become a respected engineering company and is one of the leading manufacturers of high-tech ancillary and converting machinery to the printing industry. Through strong engineering and industry experience combined with adaptation of the latest technologies, TRESU designs, develops, and produces high-quality printing machines, ancillary systems and devices for printing presses of all makes and models. Service and a consultative approach to equipment recommendations and applications is also a core competency of TRESU world-wide.

The TRESU Group has their production sites situated in Denmark and United States. Worldwide Sales & Service Subsidiaries are located in Denmark, Germany, Italy, United Kingdom, United States, Japan and China.



- the printer's choice -

TRESU A/S

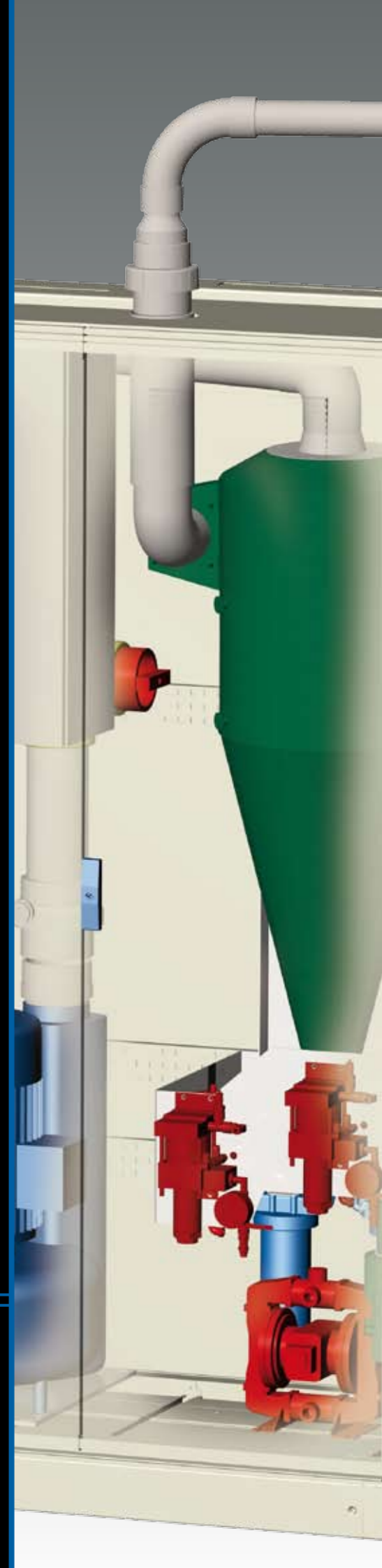
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Printing Plate Cleaner

TRESU

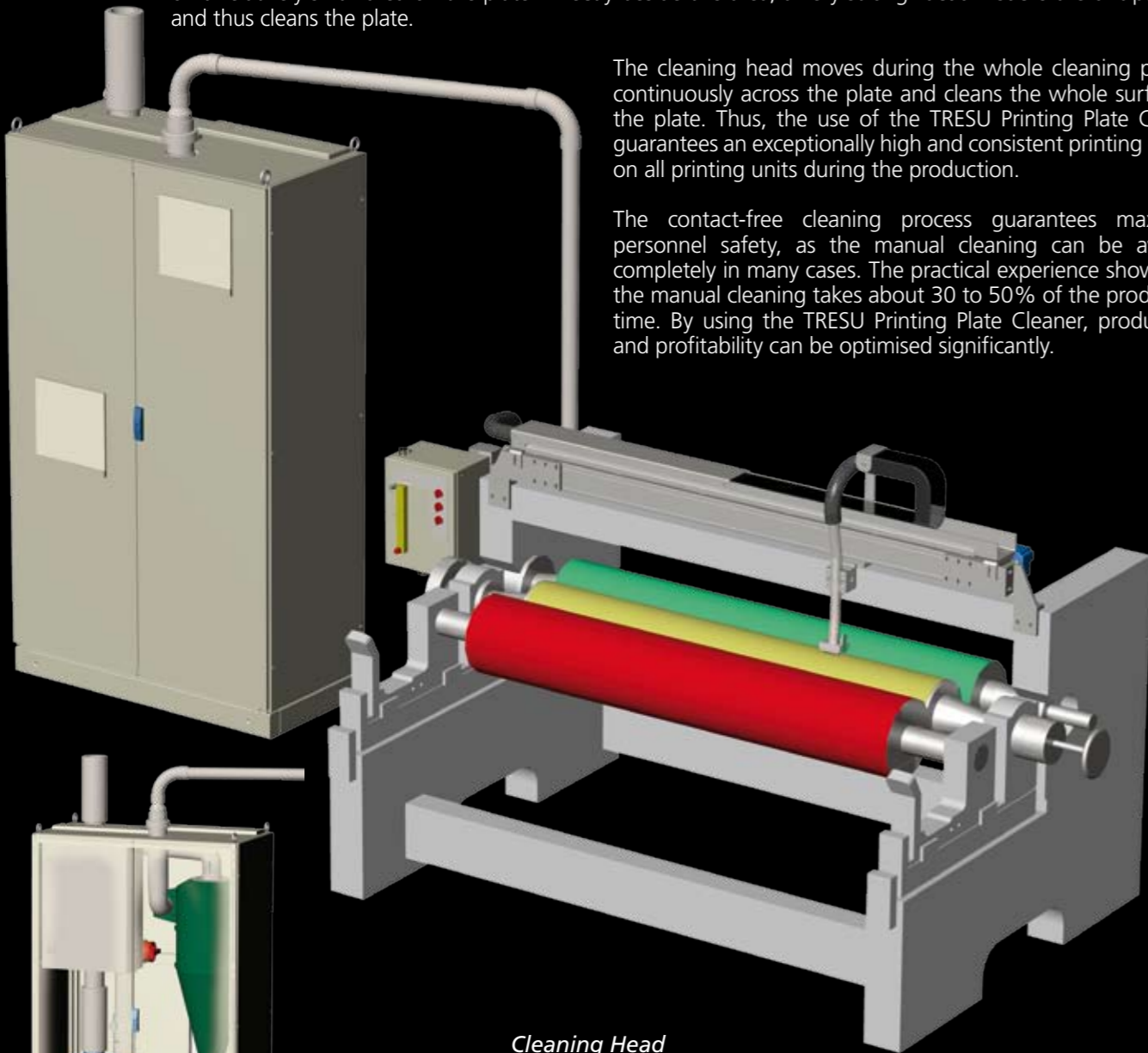


TRESU Printing Plate Cleaner

The TRESU Printing Plate Cleaning System is a patented method for touchless cleaning of the printing plate during production for all flexo printing presses within the Tissue Hygiene and Tissue Napkin industry. The principle of the Printing Plate Cleaner is based on a spraying process with a mixture of water and cleaning liquid on a relatively small area on the plate. Directly beside this area, a very strong vacuum sucks the dirt particles and thus cleans the plate.

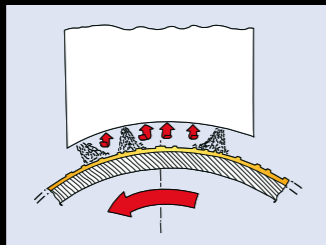
The cleaning head moves during the whole cleaning process continuously across the plate and cleans the whole surface of the plate. Thus, the use of the TRESU Printing Plate Cleaner guarantees an exceptionally high and consistent printing quality on all printing units during the production.

The contact-free cleaning process guarantees maximum personnel safety, as the manual cleaning can be avoided completely in many cases. The practical experience shows that the manual cleaning takes about 30 to 50% of the production time. By using the TRESU Printing Plate Cleaner, productivity and profitability can be optimised significantly.



Base Module

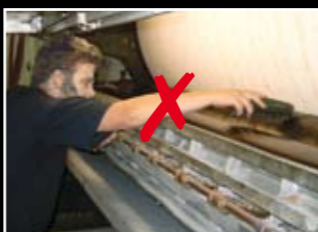
Cleaning Head



Function of the Printing Plate Cleaner

The cleaning station contains the printing plate cleaning head, constructed with a mixing chamber in which a high pressure exhalation of water and air is generated. This exhalation is blown under high pressure via small nozzles directly onto the printing plate and thus cleans the surface. Within the vacuum area, the exhalation is sucked away together with the dirt particles and is led back to the base module. The printing plate surface is dried at the cleaning head outlet before the cleaned spot leaves the cleaning head area.

Hands off the machine!

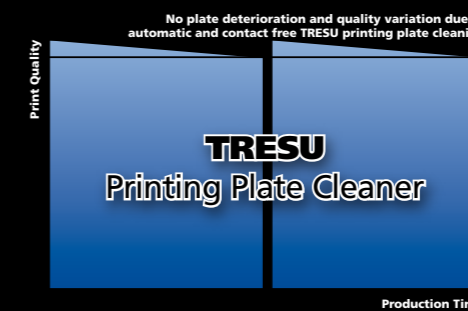
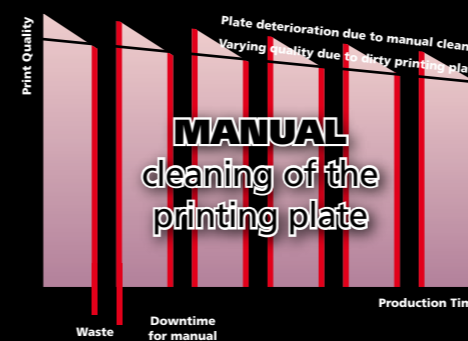


The base module, which is placed near the printing press, contains the principle components of the system, such as for example the high pressure pump, which guarantees that the needed water quantity is directed to the cleaning head, the vacuum pump with cyclone, which automatically controls the return suction and the elimination of liquid and dirt particles as well as the control for individual adjustment and observation of the several printing stations.

Control Box



Increased productivity with a Printing Plate Cleaner



Construction of the Printing Plate Cleaner

The TRESU Printing Plate Cleaner is designed with a number of cleaning stations within the machine, which correspond to the number of printing units on the machine. It contains a base module and a control box outside the machine, which are connected via tubes and hoses to the cleaning head. The base module contains the components for this system such as control, vacuum pump, cyclone filter unit for emptying water and dirt particles as well as the adjustment for the water- and air pressure. The control and adjustment box are placed near the

machine from where the water quantity is adjusted. The control knobs enable individual operation of each printing unit.

The control enables the choice of the different cleaning parameters, which have been adapted to the individual printing jobs.

The printing plate cleaning head is integrated individually in the printing press, fixed on a linear guide rail and moved by servo or high pressure across the printing plate.



PPC Tissue



PPC Napkin



Advantages

- No damage of the printing plate through automatic and contact-free cleaning during the production.
- No time loss for cleaning as the printing plate is cleaned automatically during production.
- No manual cleaning after the adjustments of the register and after downtime.
- Higher and more consistent print quality creates customer satisfaction and the possibility to meet the highest printing demands.
- No operator interference during the printing process which results in maximum operator security and observation of the internal safety mechanisms.
- Reduction of downtime decreases costs and improves profitability.
- Less waste results in increased environmental friendliness.
- Automatic cleaning during production. The cleaning process is controlled by the technology.

TRESU Printing Plate Cleaner is the most used system in the market for cleaning the printing plate during production. Approved technology available for Bretting, Futura, Hobema, OMET, Chadwick, serv-o-tec, CMG, Perini, PCMC,...