



COMBI MACHINE

Combined Brush Cleaner and Sectorial Lubrication

CLEANING UNIT

Dry Sword Brush Cleaner

DIETRONIC COMPETITORS	DIETRONIC
1. Single Brush	1. 4 brushes
2. Adherence between material and brush filaments: Brush Wear Sensor	2. Adherence between material and brush filaments: Patented Pressure Buffer
3. Steel – Aluminum (no dry lube)	3. Steel – Aluminum (also with dry lube)
4. Performance : dimensions of particles removed $\geq 50 \mu\text{m}$	4. Certificate performance Dimensions of particles removed $\geq 5 \mu\text{m}$

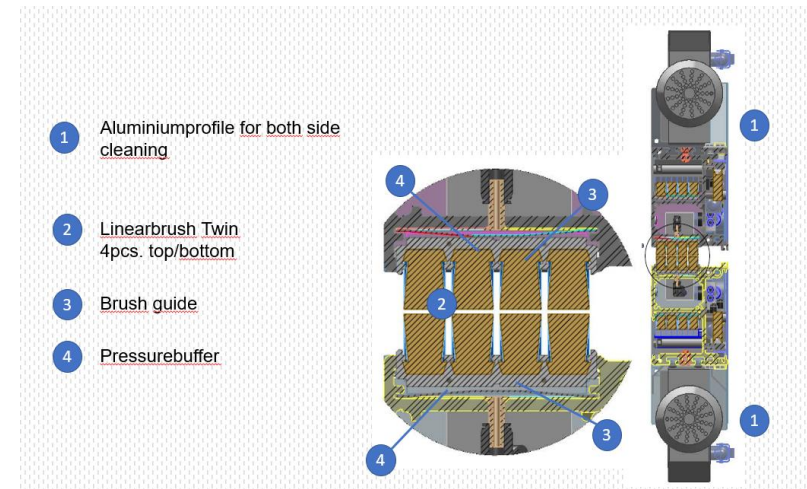
1. NUMBER OF BRUSHES

CONVENTIONAL SYSTEM →

Single Brush

DIETRONIC SOLUTION →

4 Brushes



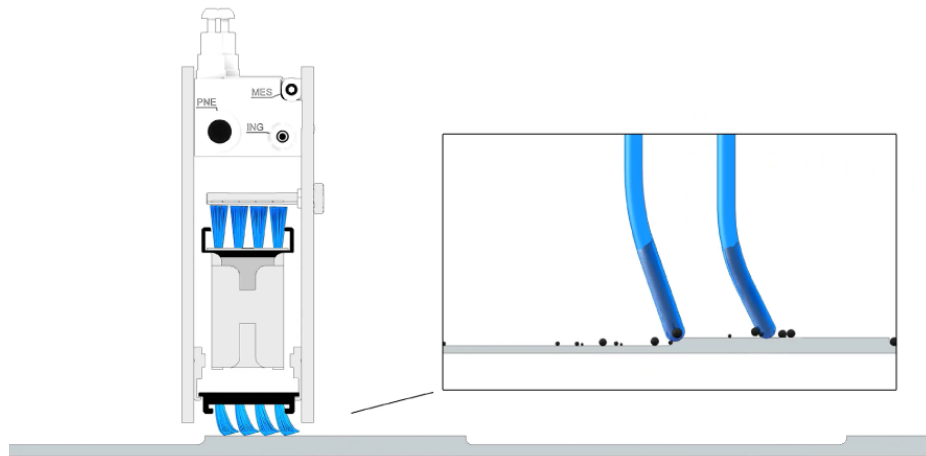
- Poor cleaning performance

- Much better cleaning performance on high speed material

2. ADHERENCE TO THE MATERIAL

CONVENTIONAL SYSTEM →

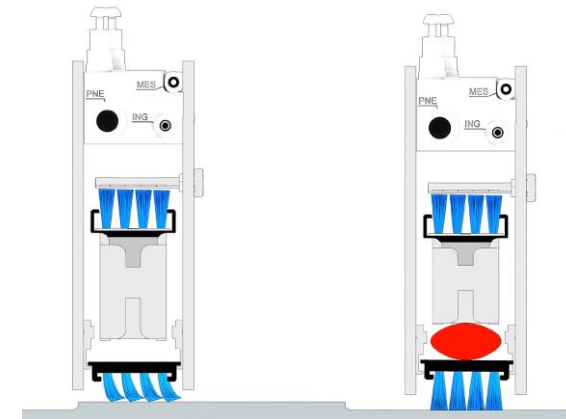
Wear sensors



- Detection sensors technology may result in an imprecise adherence regulation of the brush filaments, thus leaving particles residuals on the material surface

DIETRONIC SOLUTION →

Patented pressure buffer



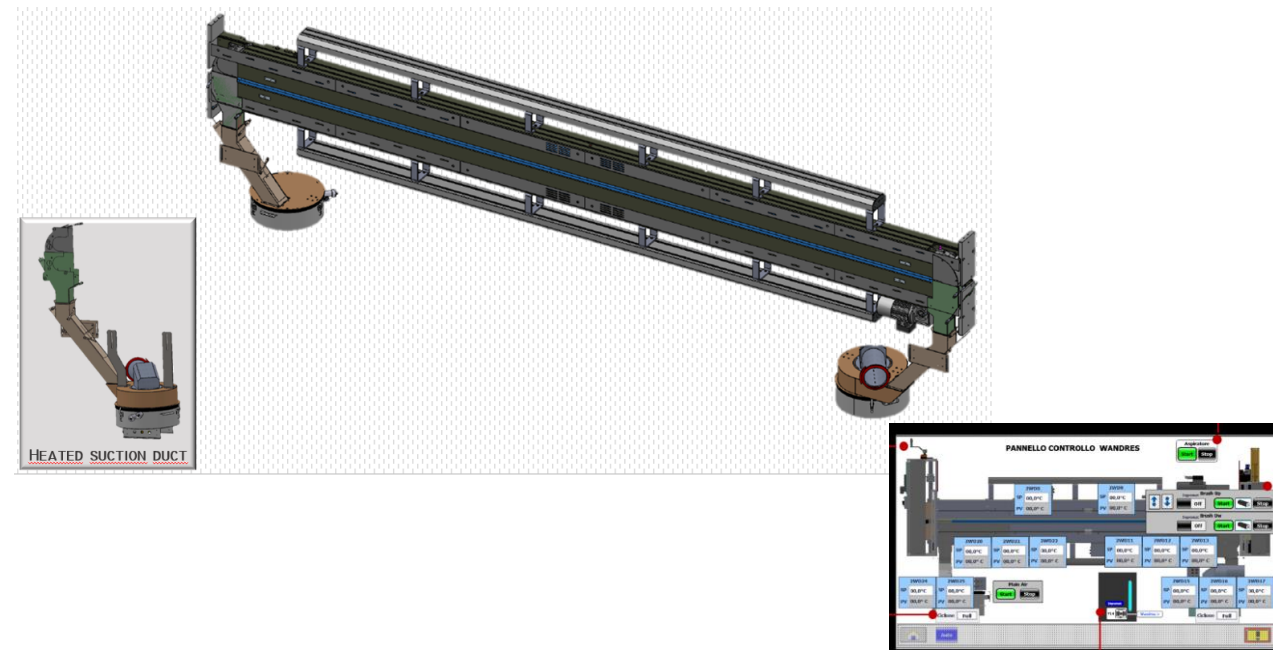
- Pressure buffer technology ensures a constant adherence of the four brushes to the material surface granting a high cleaning performance

3. STEEL AND ALLUMINUM WITH DRY LUBE

CONVENTIONAL SYSTEM →
Aluminum without dry lube

?

DIETRONIC SOLUTION →



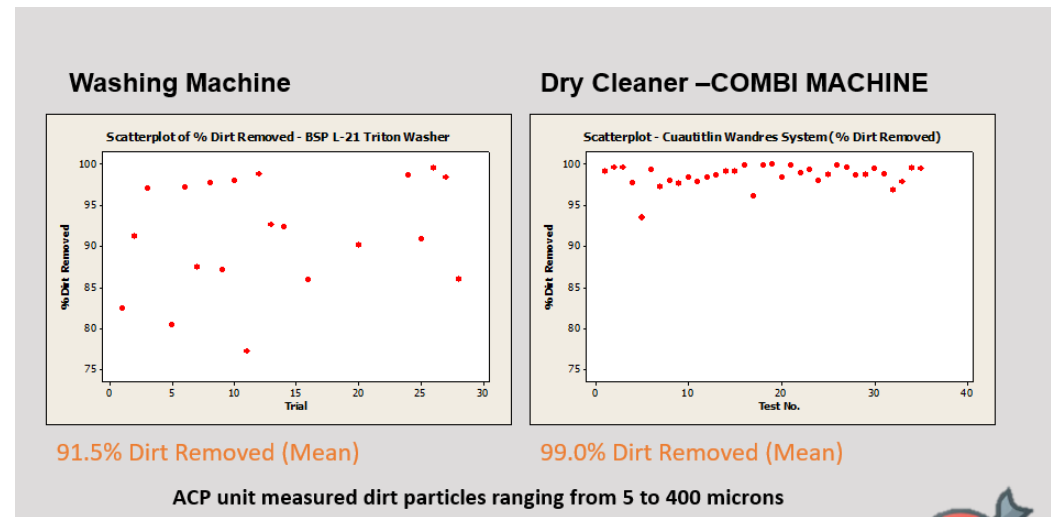
- Heating system inside the brushes and recovery channel

3. CLEANING PERFORMANCE

CONVENTIONAL SYSTEM →
Particles dimension $\geq 50 \mu\text{m}$



DIETRONIC SOLUTION →
Particles dimension $\geq 5 \mu\text{m}$



SEE REPORT OF THE LAST GM INSTALLATION

LUBRICATION UNIT

Sectorial Spray Lubrication System

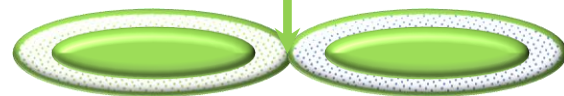
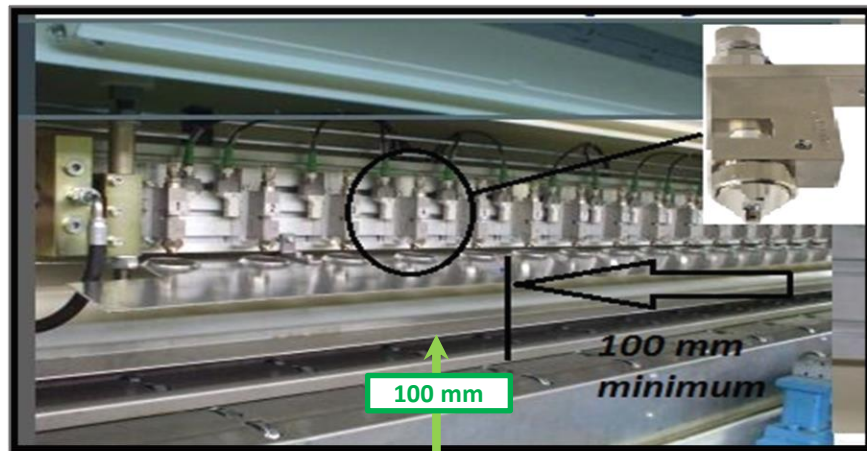


DIETRONIC COMPETITORS	DIETRONIC
1. Conventional nozzle distance	1. Reduced nozzle distance
2. Conventional spray guns	2. High frequency valves technology
3. Conventional sprayheads	3. Closed and extractable sprayheads
4. Autocad drawing upload	4. Automatic learning of blank shape
5. Application of different oil quantities	5. Application of different oil quantities on the same blank
6. Conventional Oil Mist Suction System	6. Special Oil Mist Suction System

1. NOZZLE DISTANCE

CONVENTIONAL DISTANCE →

From nozzles to the material *100 or 125 mm*
Distance between the nozzles *100 or 125 mm*



- More overspray to control
- Imprecised spray application (as distance from blank surface increases, pattern resolution drops)
- **Manual calibration**

DIETRONIC SOLUTION →

From nozzles to the material *50 mm*
Distance between the nozzles *50 mm*



- Minimum overspray to control
- Improved lubrication quality and homogenization
- **Automatic calibration and real measurement of the lubricant dosage even at different viscosities**

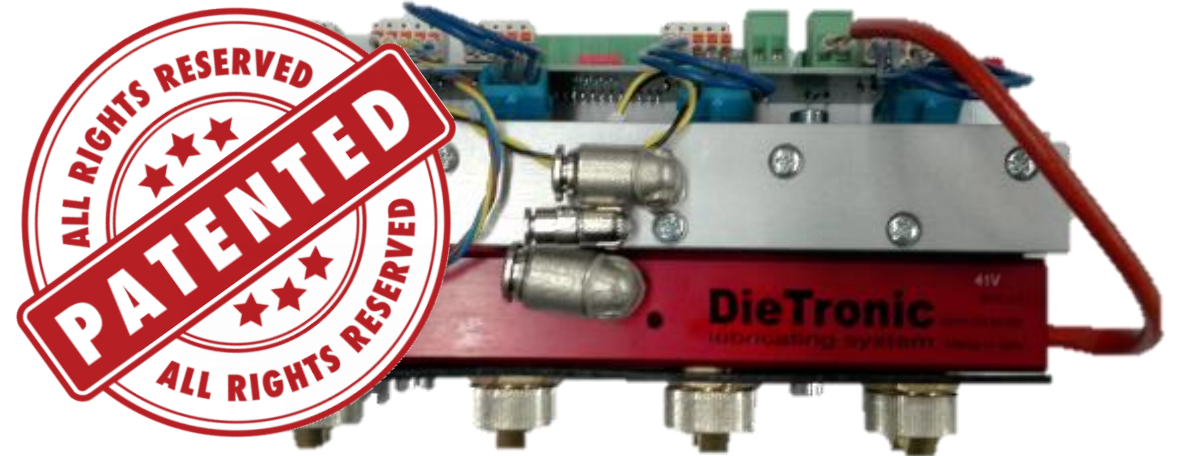
2. SPRAY TECHNOLOGY

CONVENTIONAL SPRAY GUNS WITH NEEDLE



- **Mechanic control** (the oil quantity is adjusted according to the movement of the inside needle)
- **Need for manual calibration**

DIETRONIC HIGH FREQUENCY VALVES TECHNOLOGY



- **Electronic control** (the oil quantity is adjusted thanks to an electronic frequency signal)
- **Accurate control of the dispensed oil quantity**
- **Automatic adjustment**

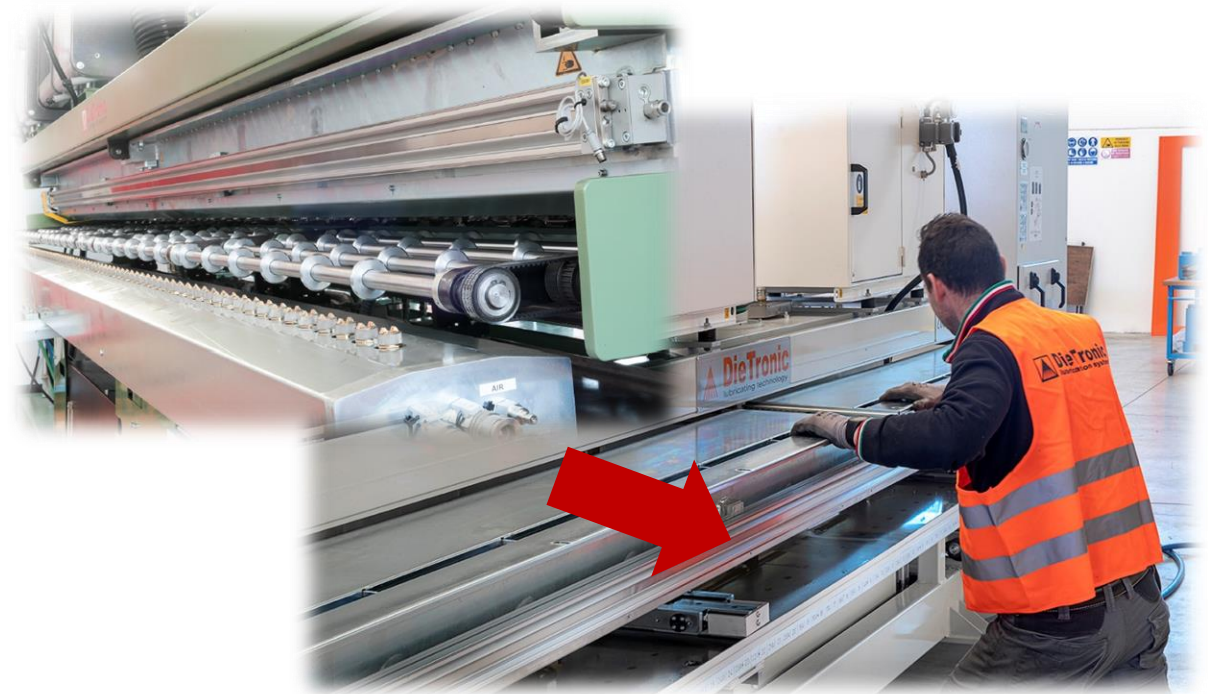
3. SPRAYHEADS' DESIGN

OPEN SPRAYHEADS



- Contamination on internal part of the machine (wires, electrical components, ...) and in the working environment

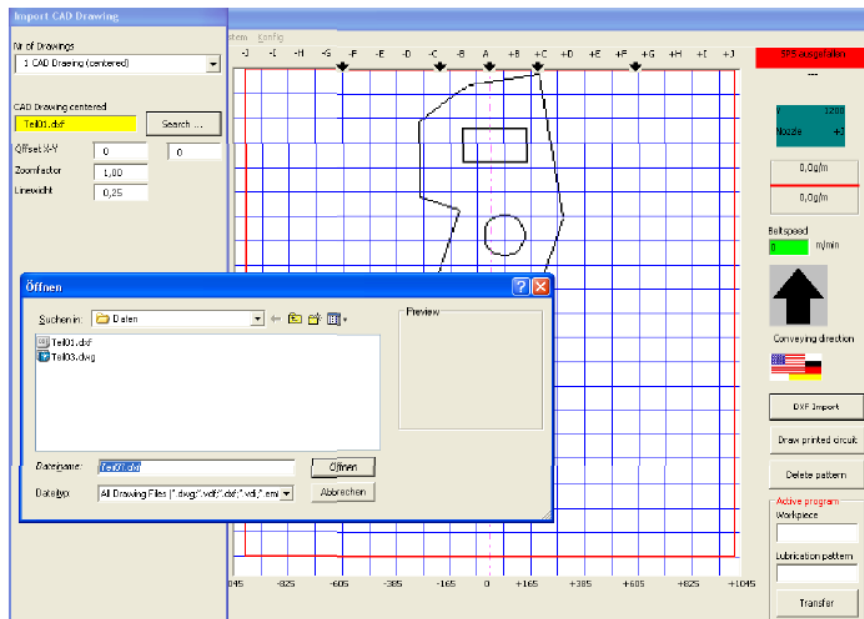
DIETRONIC CLOSED AND EXTRACTABLE SPEYHEADS



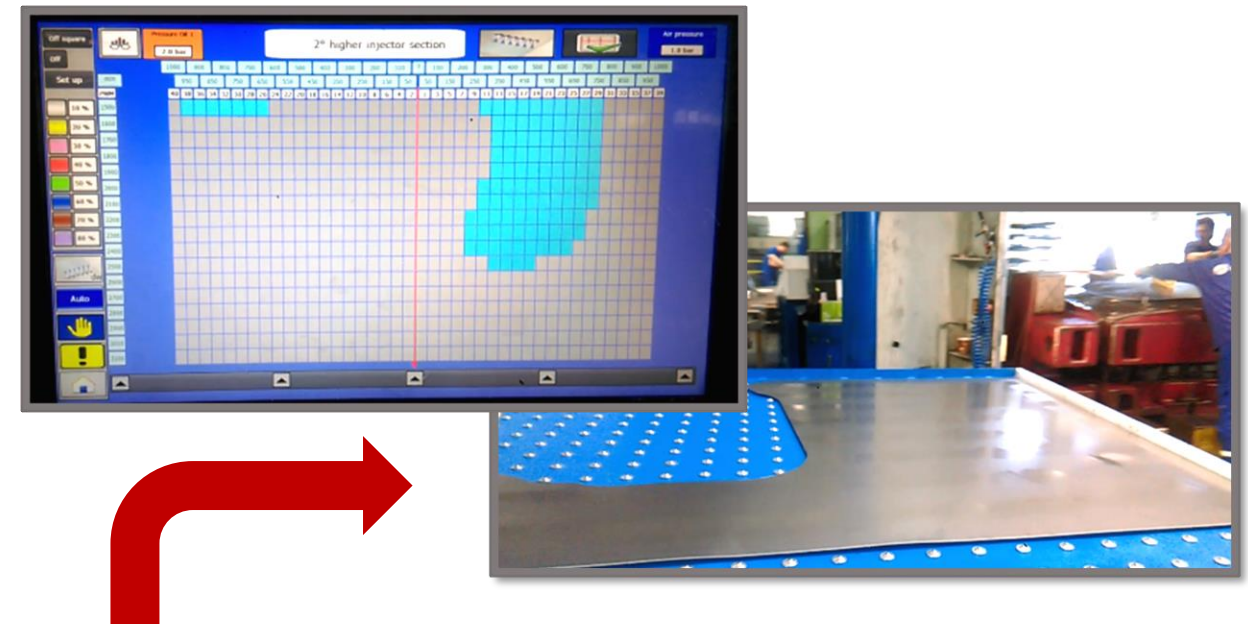
- No contamination on wires, tubes, ...
- Extractable from the front side to facilitate maintenance operations

4. LEARNING OF THE BLANK SHAPE

CONVENTIONAL UPLOAD OF AUTOCAD DRAWING



DIETRONIC AUTOMATIC LEARNING OF THE BLANK SHAPE



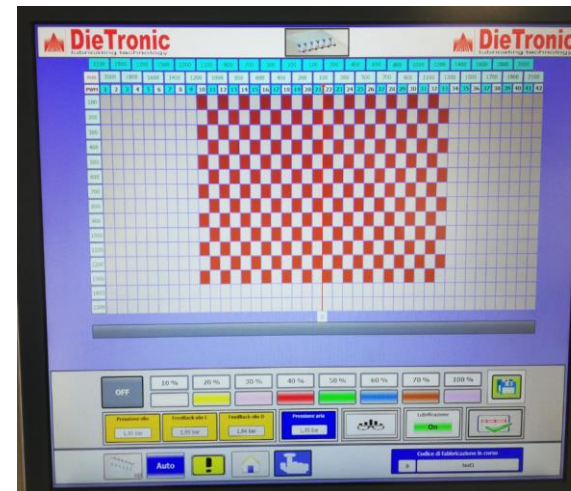
Thanks to sophisticated leading edge detection sensors, DieTronic special auto-learning function allows to display the shape of the first blank in production on the operator panel to easily set the lubrication areas

5. OIL APPLICATION

SPRAYING OF UP TO 4
DIFFERENT OIL QUANTITIES
(but on different blanks!)

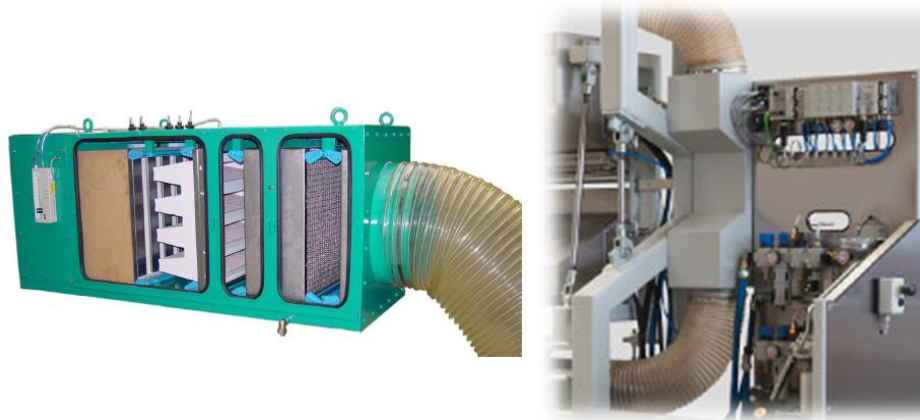


DIETRONIC SPRAYING OF UP TO 8
DIFFERENT OIL QUANTITIES
ON THE SAME BLANK



6. AVOIDANCE OF OIL DROPS

CONVENTIONAL OIL MIST SUCTION SYSTEM



The exclusive design of DieTronic suction system allows to catch the oil particles directly from the spraying area

DIETRONIC SPECIAL OIL MIST SUCTION SYSTEM DESIGN



The minimum distance of only 50 mm between the nozzles and the blank sheet:

- reduces the spray area to be controlled
- grants absolute cleaning with absence of oil accumulation on the inside walls of the machine that may turn into drops falling on the blank sheet

AVAILABLE CONTROL:

- SIEMENS
- OMRON
- ALLEN BRADLEY



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- Periodical Maintenance Programs
- Possibility of remote assistance (h24)
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 - ✓ Brazil



DieTronic



DieTronic



DieTronic



DieTronic



References Automotive OEM



General Motors



References Automotive T1 and T2



References Integrators



GÜDEL

SCHULER
Member of the ANDRITZ GROUP

FAGOR



HYUNDAI
Rotem

Nidec
ARISA

MECFOND S.p.A.

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TIMAC
since 1975

References Appliance

FRANKE

B/S/H/

 **Electrolux**

 **Whirlpool**

 **REGINOX**

 **smeg**

 **Indesit**

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 **EPELL**
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