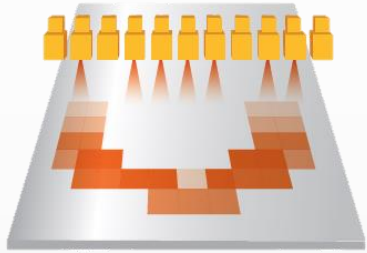


# SAGOMA Sectorial machine for Blanks and Coils





*First DieTronic facility in Via Cavalier Angelo Manzoni  
28, Sant'Angelo Lodigiano 26866 (LO) , Z.I. Maiano*



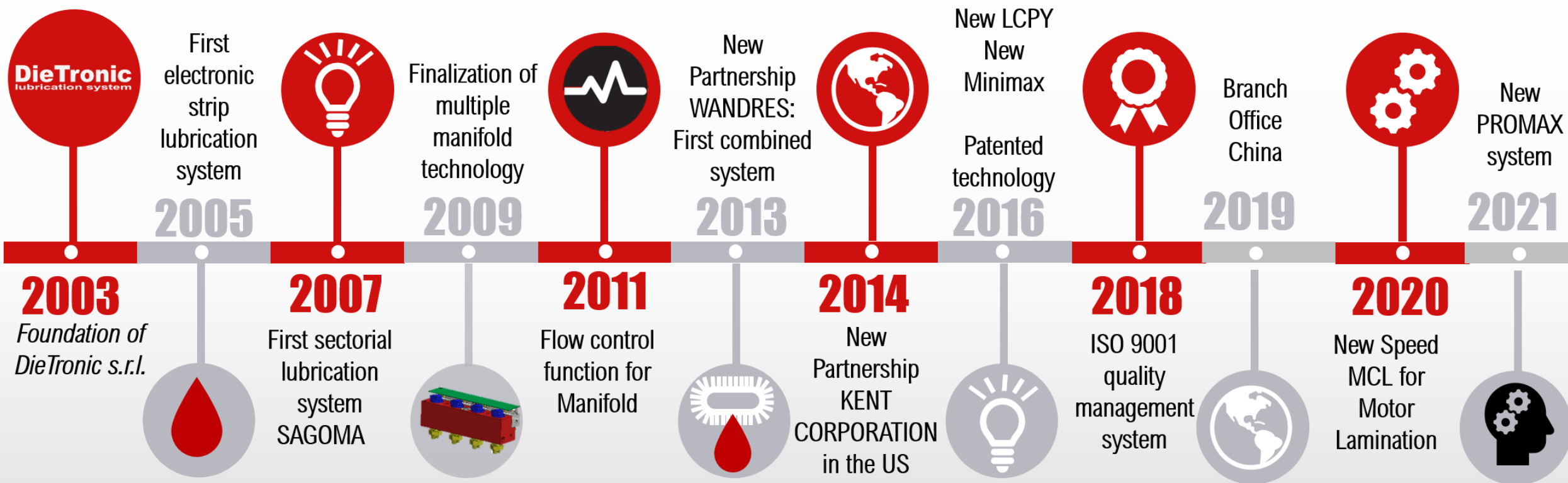
*DieTronic consolidated technology is the result of years of research, development and improvement*

# OUR HISTORY

DieTronic was founded in 2003 thanks to the consolidated know-how and forward-looking vision of its founders, who desired to provide advanced automatic lubrication systems of the highest quality for different metal-forming applications.

Thanks to our over fifteen-years experience, we have been able to develop a consolidated and patented technology, with an internal efficient quality management system certified also by the achievement of ISO 9001:2015.

# OUR HISTORY





# ABOUT US

- 2000 m<sup>2</sup> plant
- +15 years experience
- 615 machines produced



*The new DieTronic plant in Via Madre Teresa di Calcutta 9-13,  
Sant'Angelo Lodigiano 26866 (LO) , Z.I. Malpensata*



# OFFICES



# PRODUCTION



# WAREHOUSE







*DieTronic agents and distributors network*

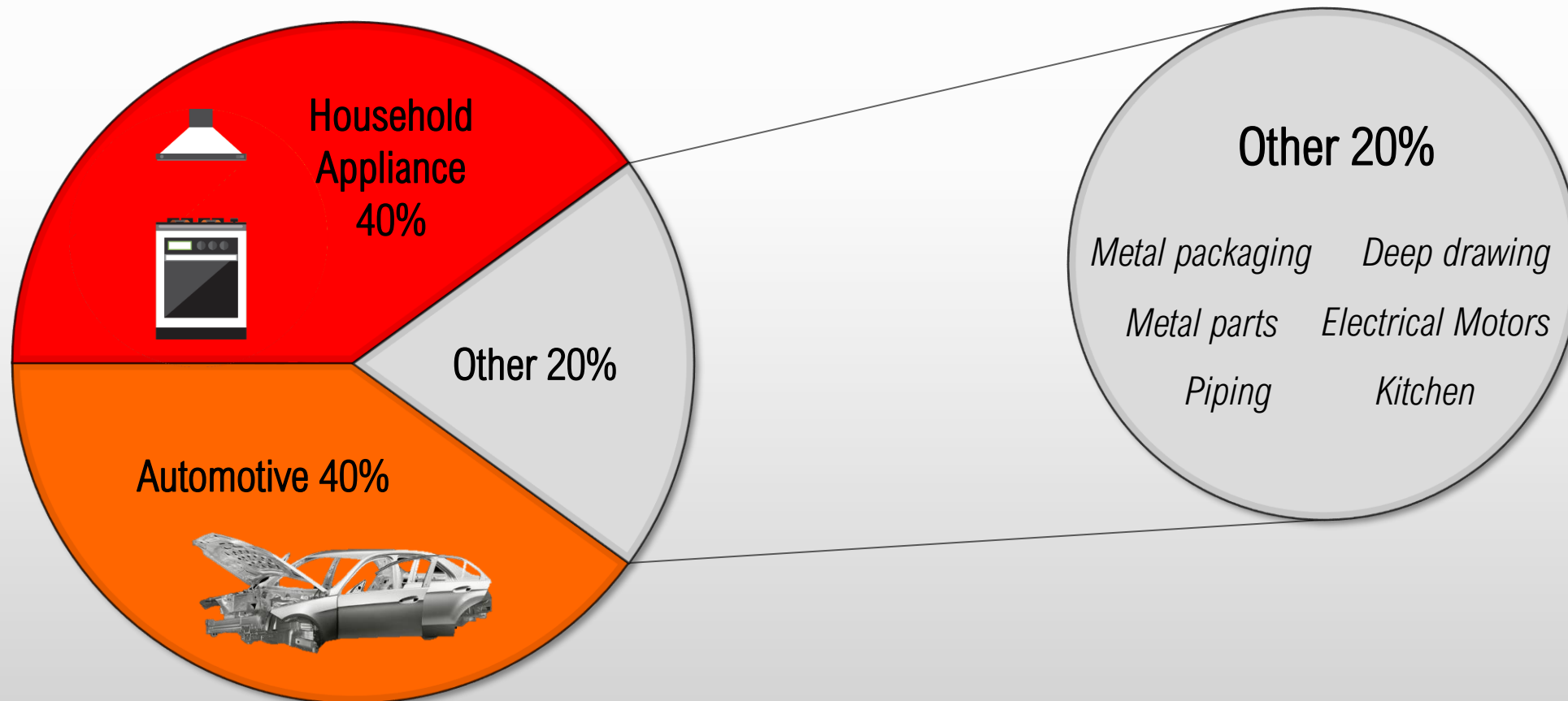
# **GLOBAL PRESENCE**

DieTronic boasts a long series of collaborations and partnerships with companies and well-known factories in Italy as well as in Europe and all over the world.

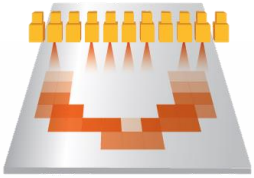
Our distribution network offers support to the customer starting from the consultancy to the assistance and maintenance, also through remote assistance.

# APPLICATION FIELDS

We are suppliers of lubrication systems for different sheet metal-forming applications, mainly for the Automotive and Household Appliance.







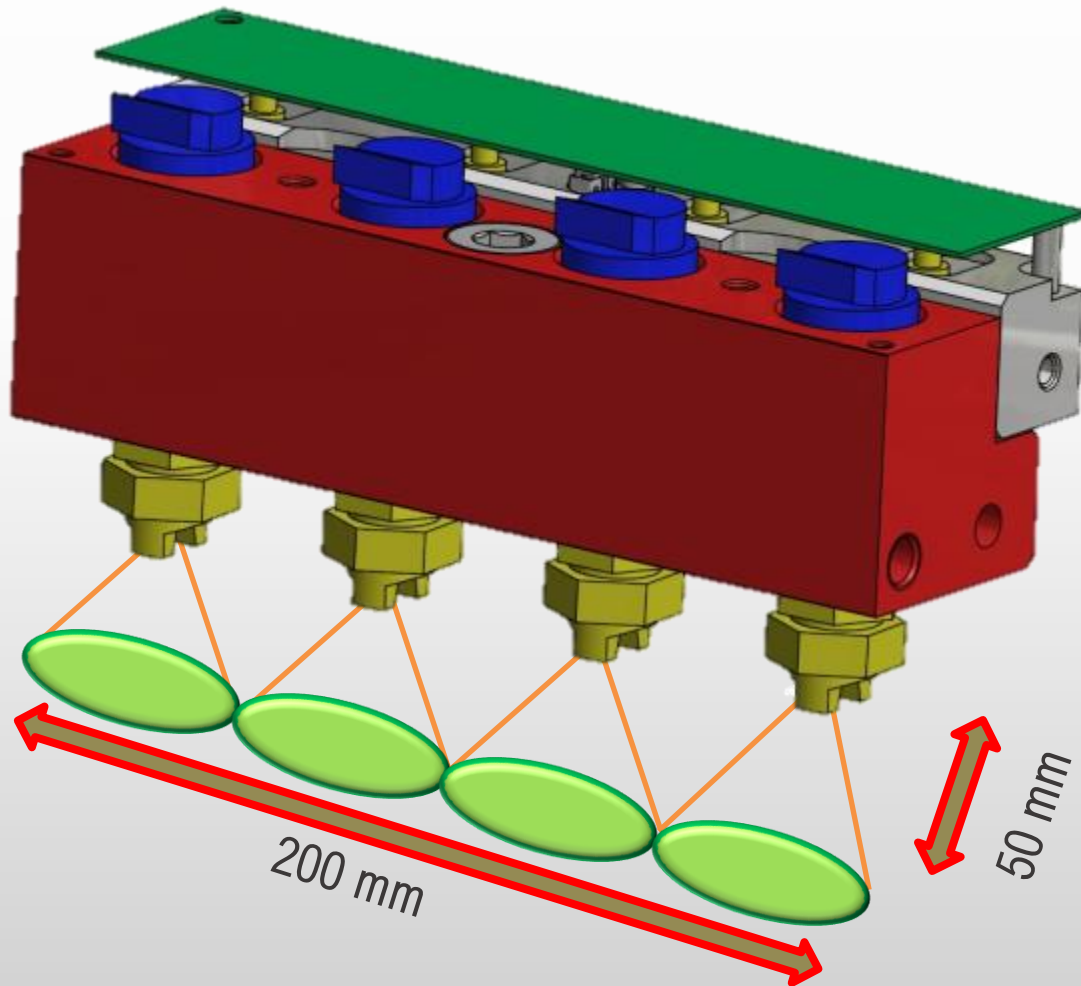
# SAGOMA SECTORIAL LUBRICATION MACHINE

- Possibility to select specific lubrication areas in **50x50 mm patterns**
- Oil quantity adjustment from 0,5 to 3 g/m<sup>2</sup>
- Up to 8 different oil quantities on the same surface
- Suitable for both blank and coil
- Available in different sizes:
  - ☐ *for blank processing*: from 800 to 3000 mm width
  - ☐ *for coil*: from 800 to 2000 mm width



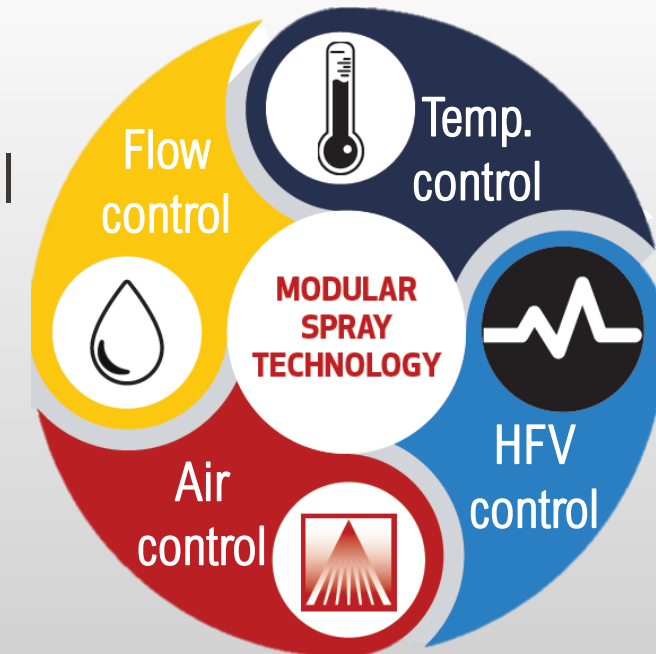
# DIETRONIC ® MODULAR MANIFOLD TECHNOLOGY

## DIETRONIC ® MODULAR MANIFOLD TECHNOLOGY

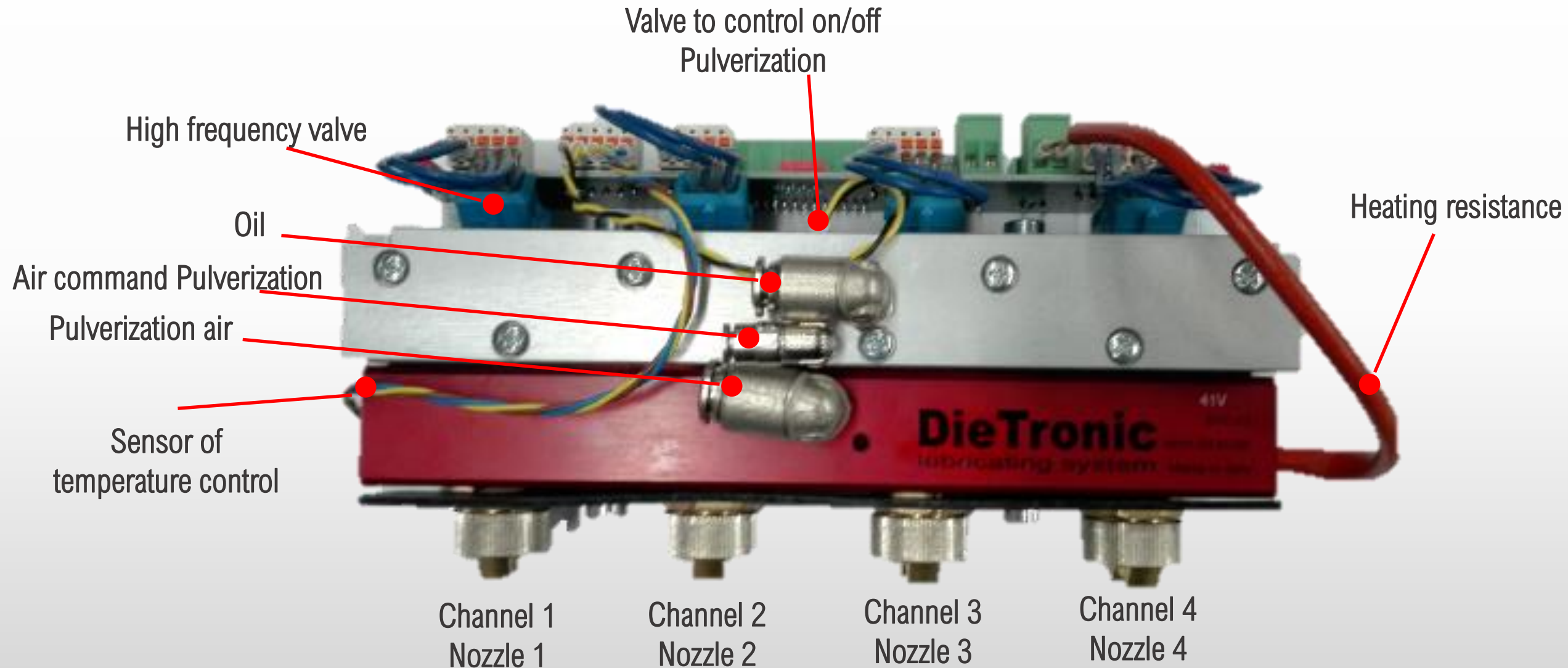


Due to the design of DieTronic solution (just 50 mm distance), instead of a conventional spray machine, there is a substantial reduction in spray-oil mist

- ✓ No overspray to control
- ✓ Less oil mist



# MODULAR MANIFOLD

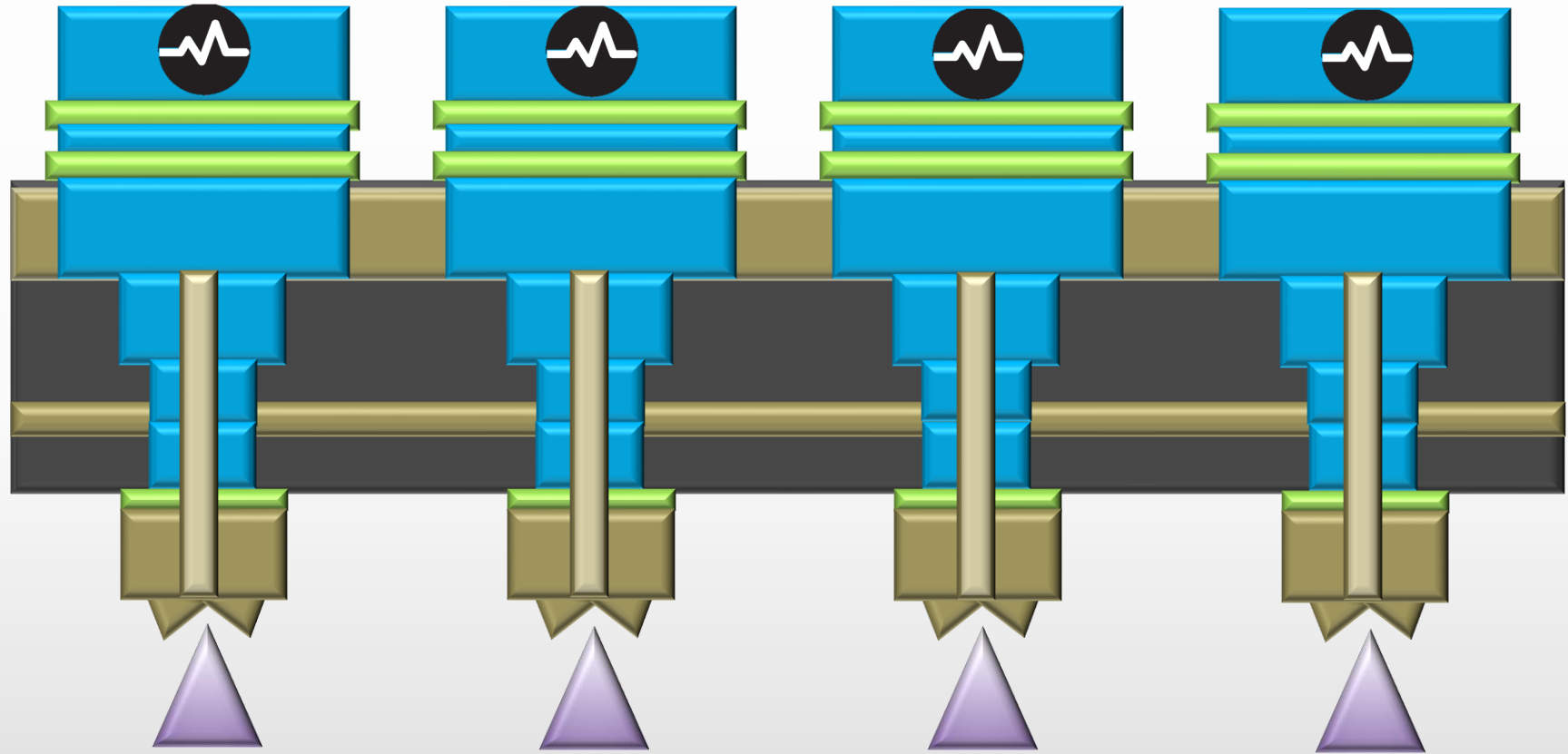




# SAGOMA® HFV TECHNOLOGY

## THE FUNCTIONS OF THE MANIFOLD

AUTOMATIC VOLUME  
ADJUSTABLE THROUGH HFV  
(HIGH FREQUENCY VALVE)



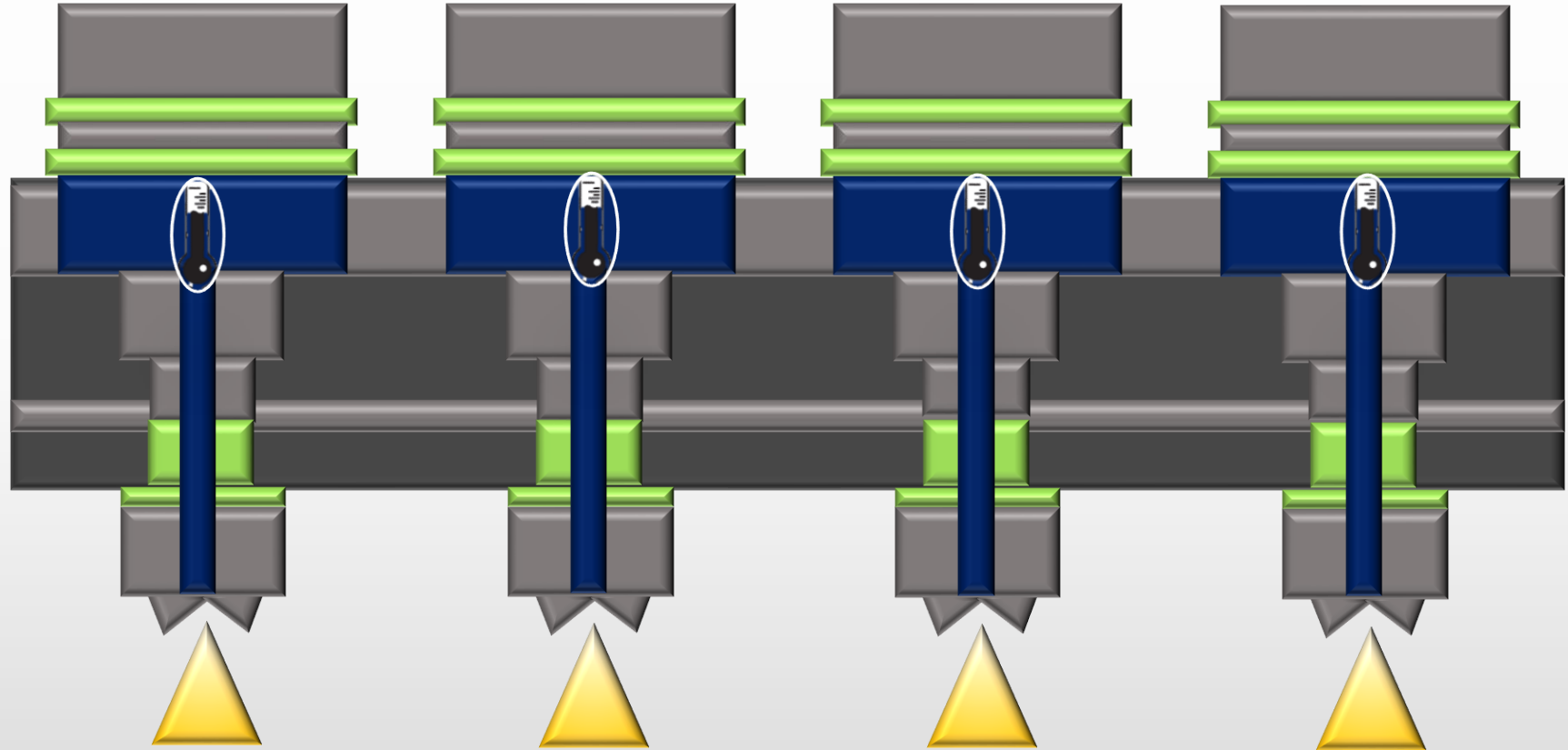
## DT HFV ® OIL FLOW CONTROL

# SAGOMA® HFV TECHNOLOGY

## THE FUNCTIONS OF THE MANIFOLD



HEATING SYSTEM  
INTEGRATED WITH  
TEMPERATURE CONTROL  
FOR EACH MANIFOLD

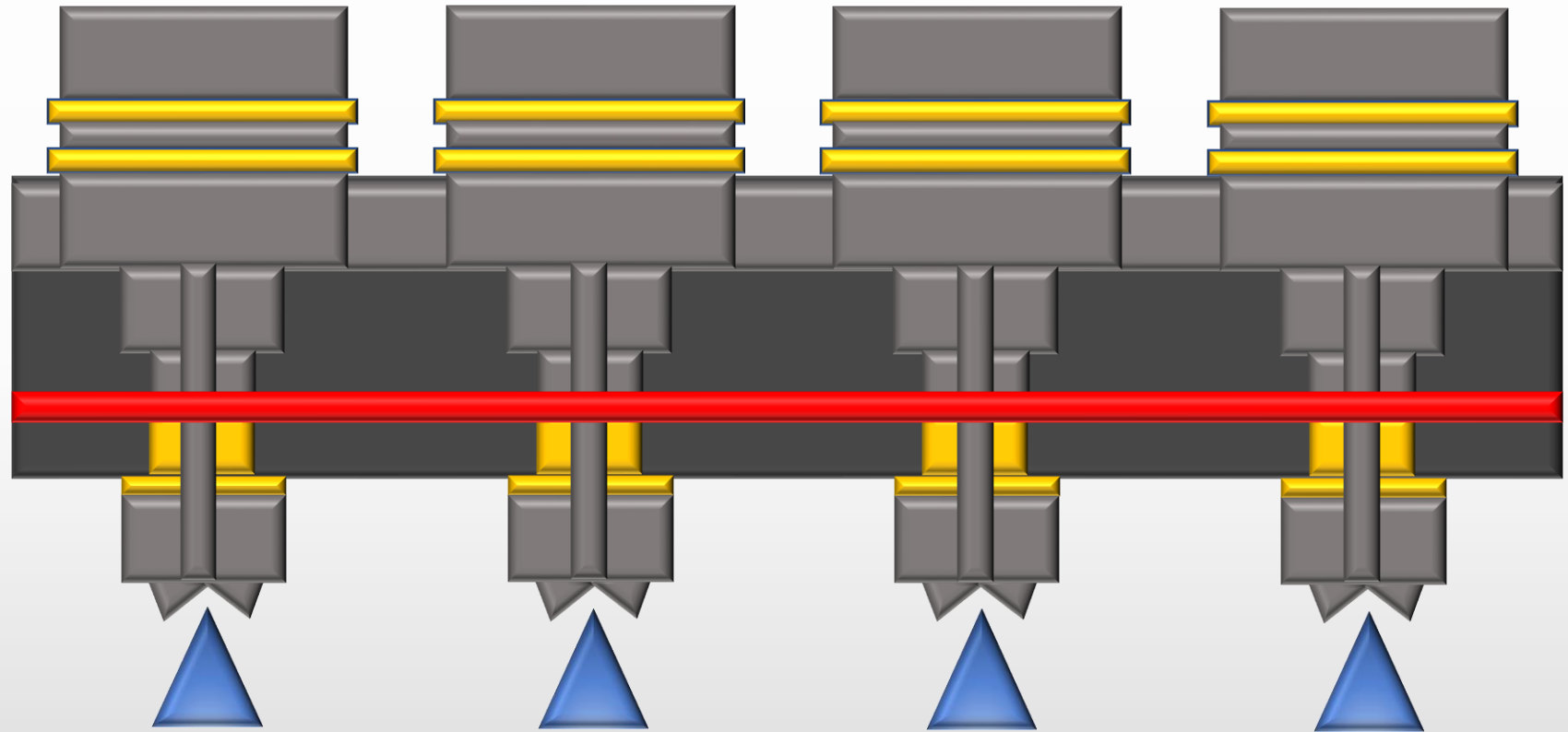


## DT TEMP® CONTROL

# SAGOMA® HFV TECHNOLOGY

## THE FUNCTIONS OF THE MANIFOLD

AIR SPRAY CONTROL VALVE  
INTEGRATED IN EACH  
MANIFOLD WITH ELECTRONIC  
ADJUSTMENT



**DT AIR® CONTROL**

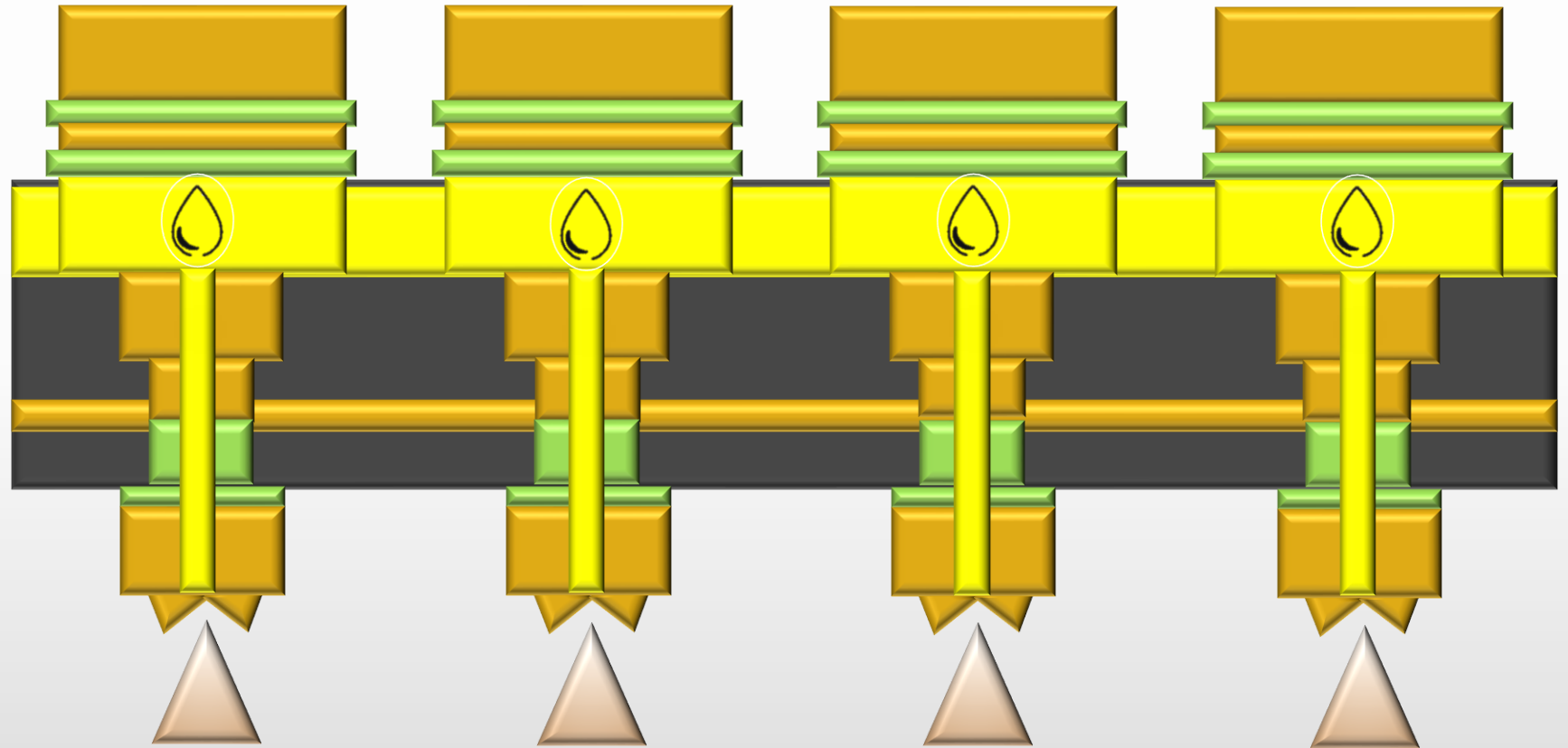


# SAGOMA® HFV TECHNOLOGY



## THE FUNCTIONS OF THE MANIFOLD

TEST FUNCTION TO ENSURE  
THE PERFORMANCE OF EACH  
NOZZLE

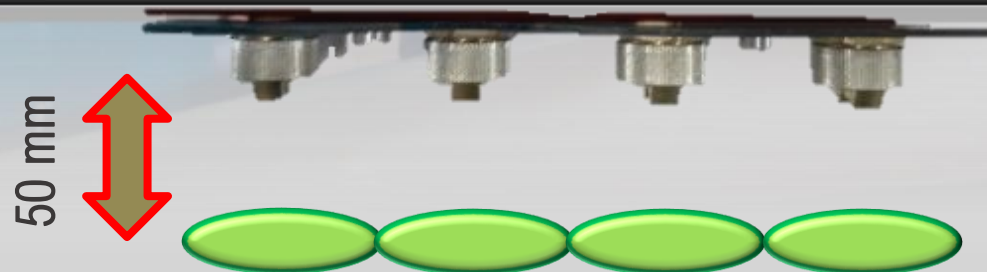
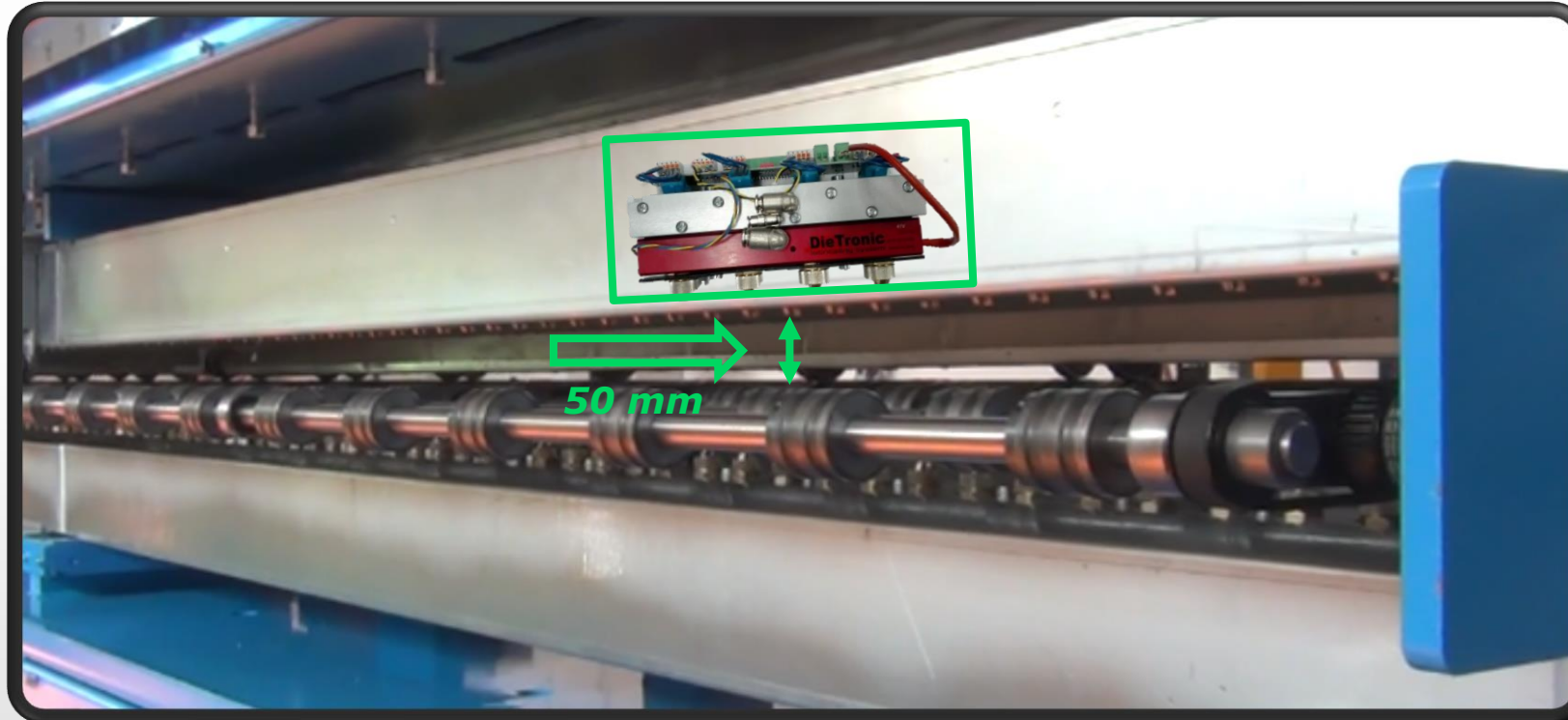


## DT SENSOR® CONTROL

# RESTRAIN CONTAMINATION

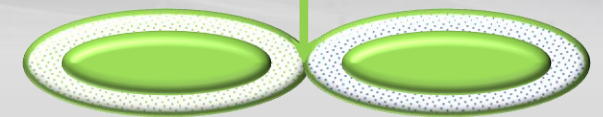
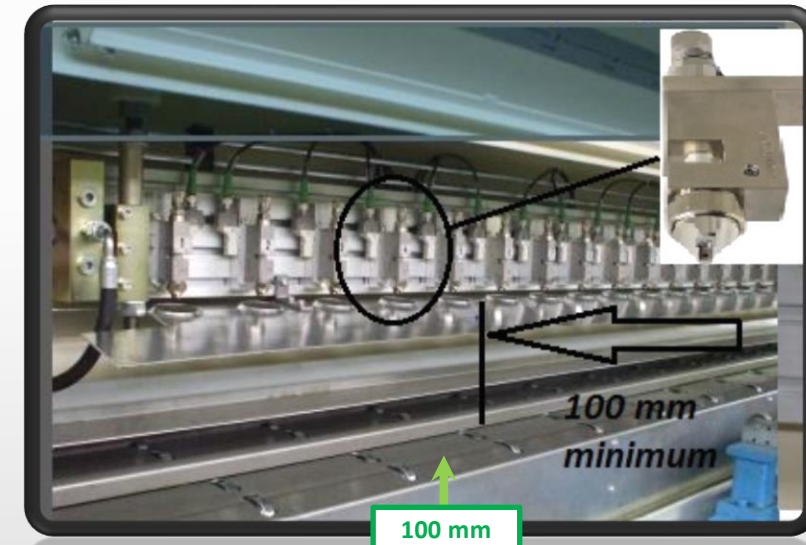
## DIETRONIC CLOSED SYSTEM

to avoid any contamination of parts as tube pipe and electrical device



## CONVENTIONAL OPEN SYSTEMS

Oil mist dispersion on all parts of the cabinet

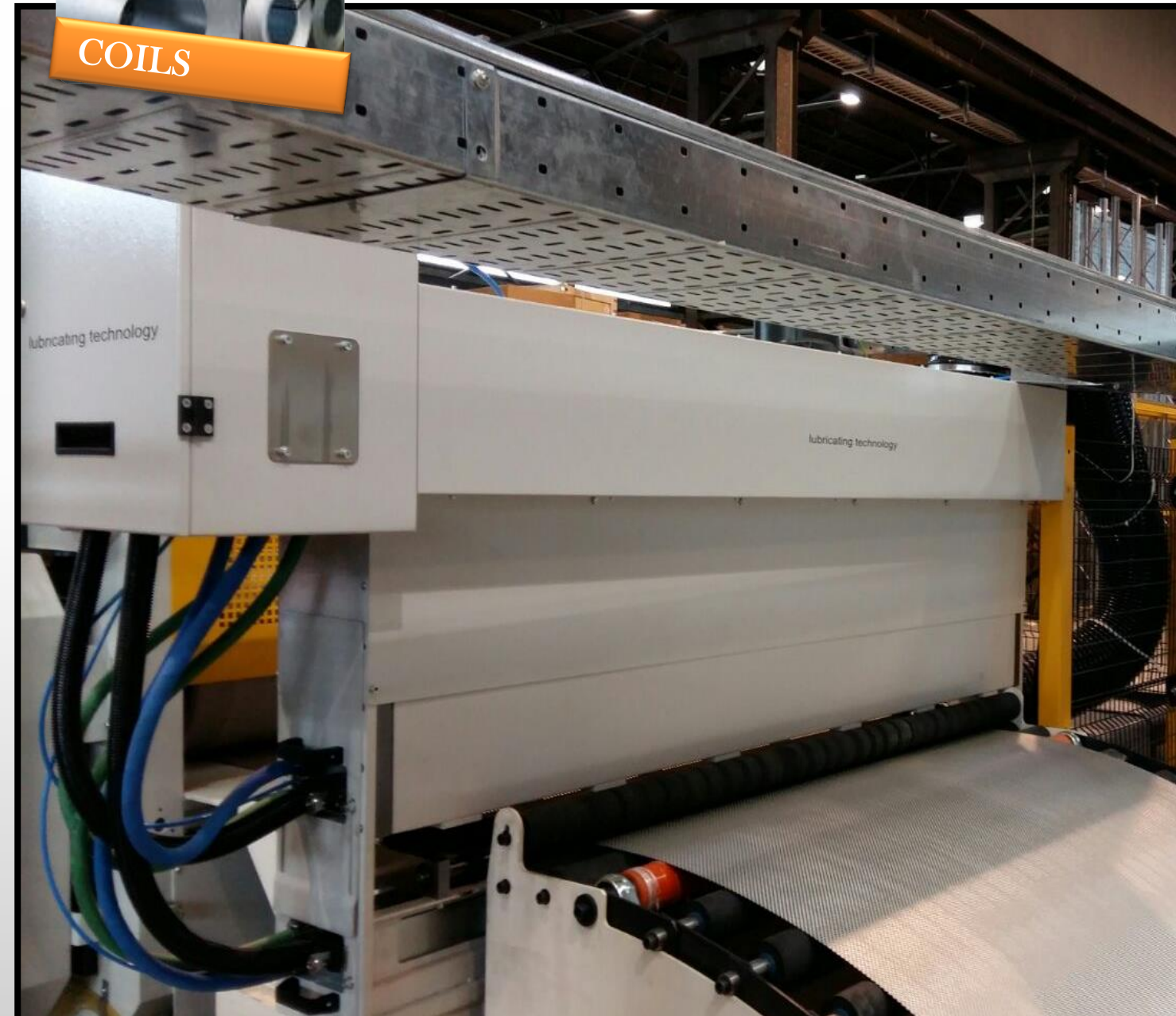


Imprecise spray application with more overspray to control



# Suitable for COIL

COILS





# Suitable for BLANKS

BLANKS





## MOTORIZED CONVEYOR

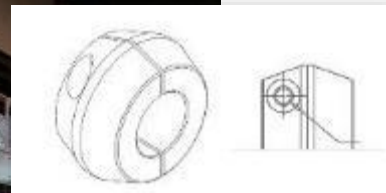


Smart Conveyor ensures 100% of sheet movement without slitting by upper Crushless wheels



**DieTronic**  
lubrication system

## NON-DRIVEN WHEELS



Non- motorized transport with minimum contact design of the wheels

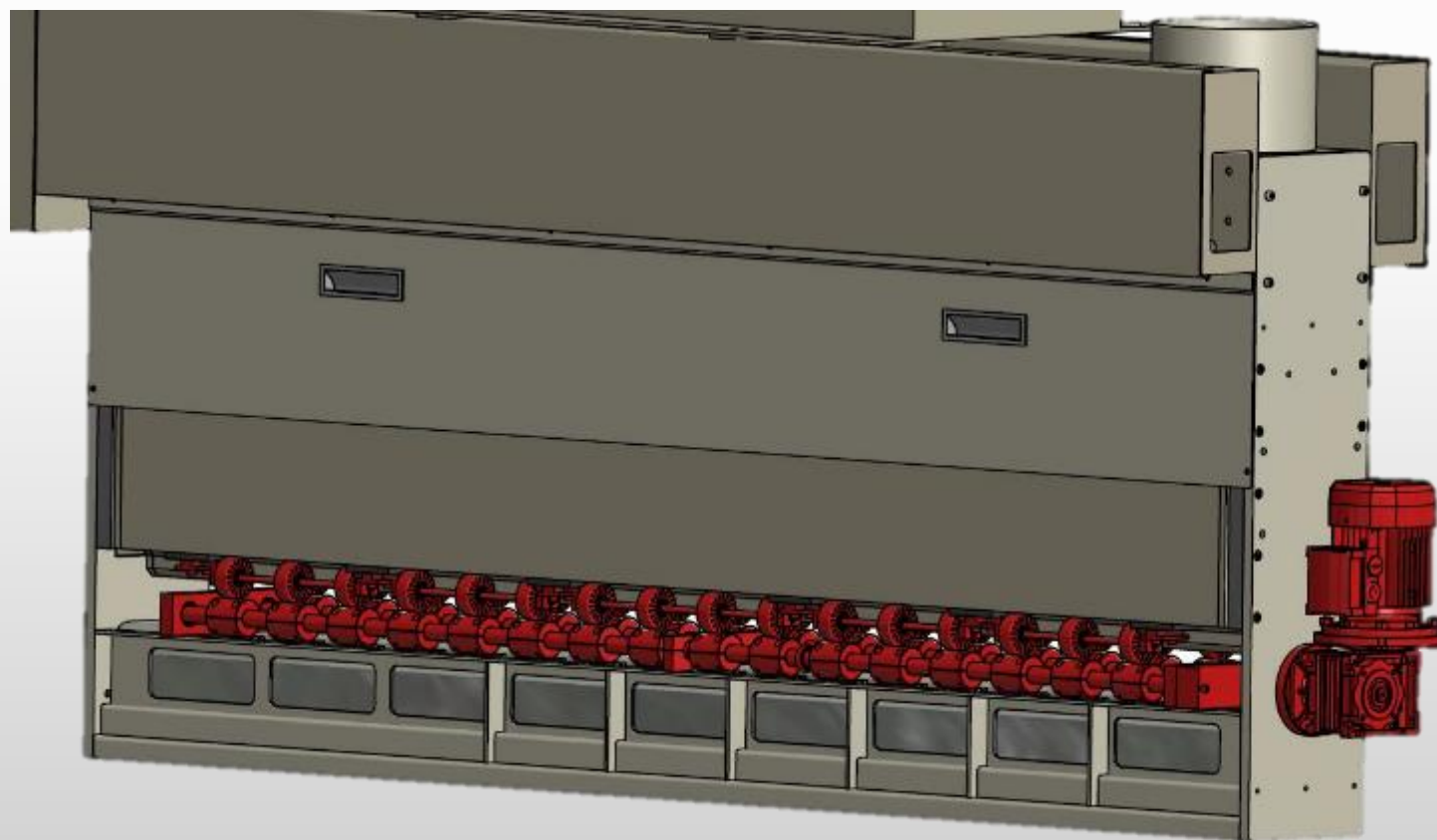


ONLY  
BLANKS

# MOTORIZED CONVEYOR

## SLIM DESIGN

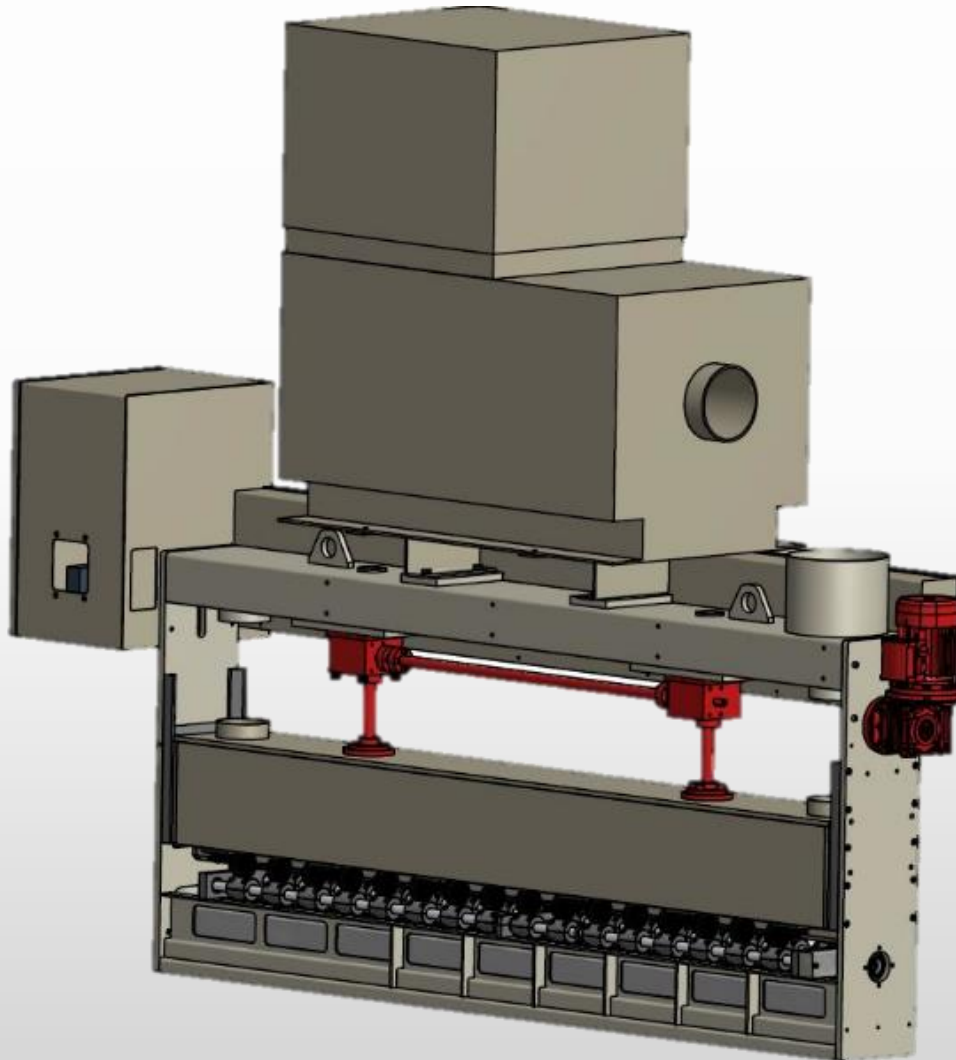
A blank of minimum 300 mm can pass through the machine without imprecise moving





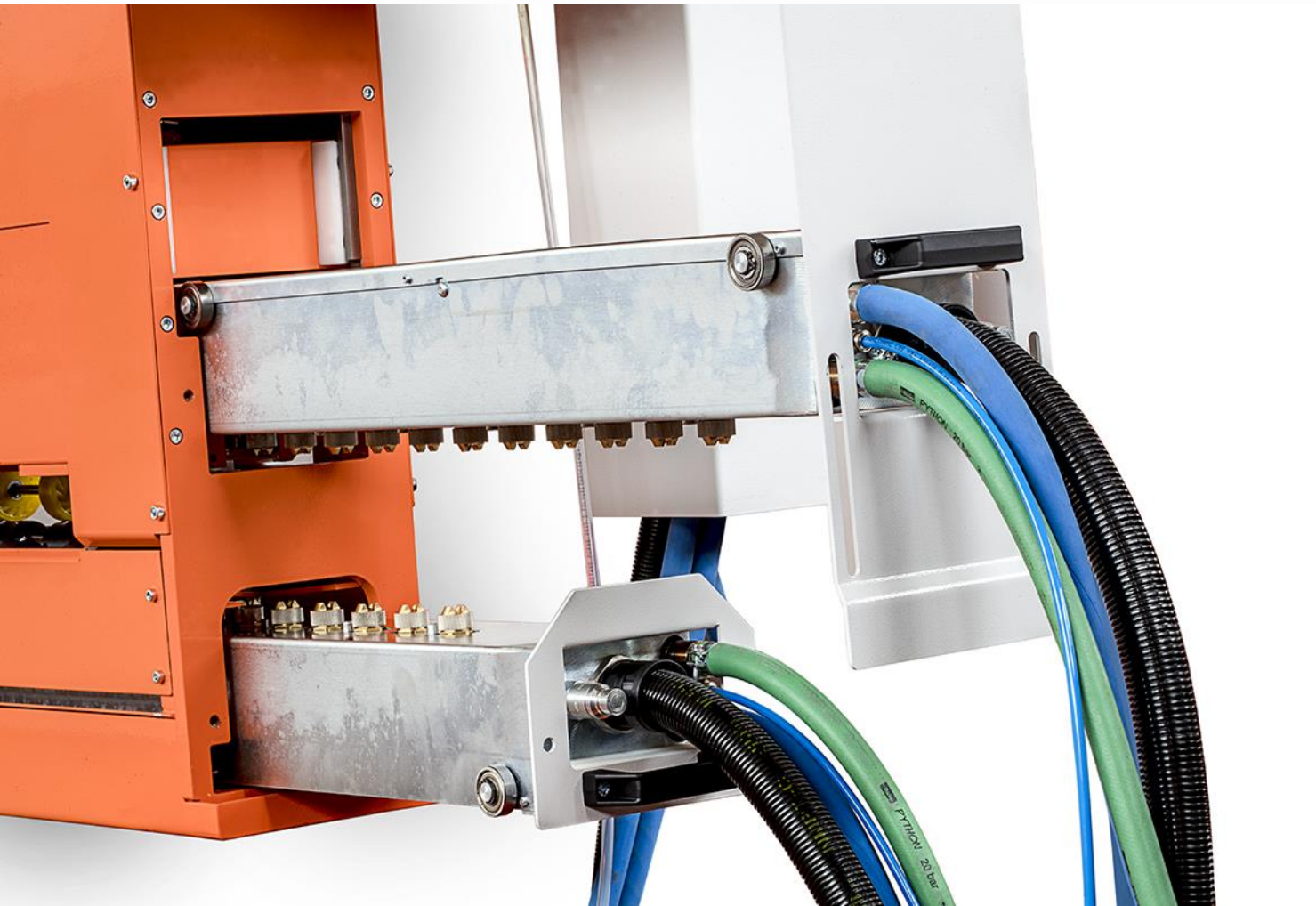


# HEIGHT ADJUSTMENT SYSTEM



If the machine is inserted on a *coil processing line*, the system can be equipped with a ***height adjustment system*** of the upper spray head to ensure an *easier coil insertion operation* and avoid to damage the material and the machine

# CLOSED AND EXTRACTABLE SPRAY HEADS



- Upper and a lower closed and extractable sprayheads
  - ✓ *Cleaner and safer working environment*
  - ✓ *Easier maintenance*
- Patented Modular Manifolds
  - ✓ *Quick replacement*

# OIL MIST EXTRACTION SYSTEM

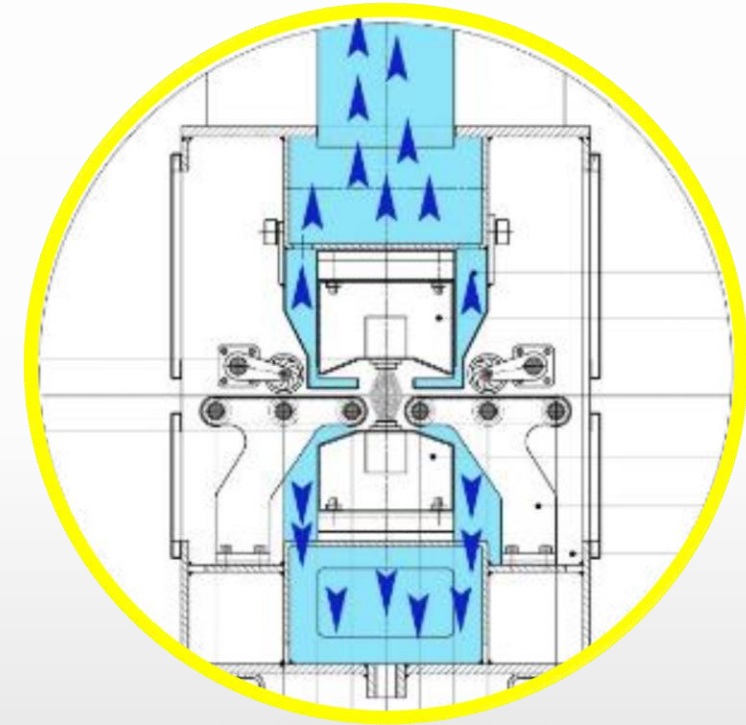
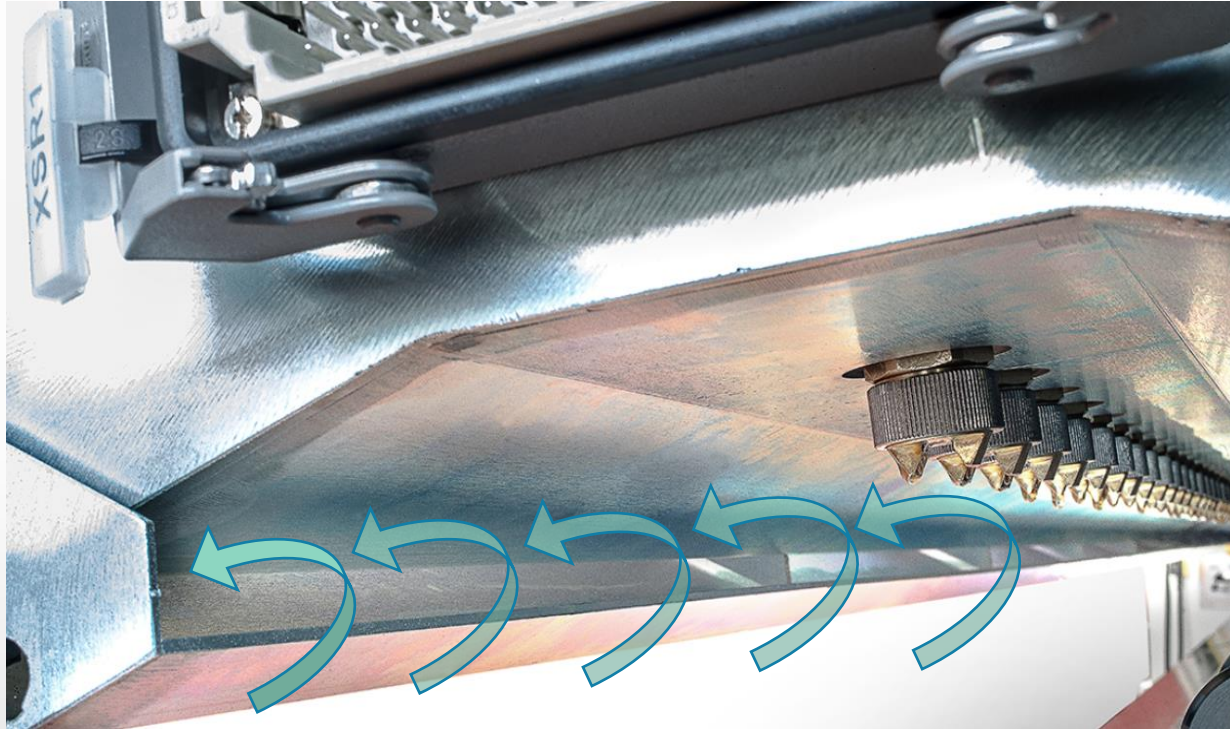
To minimize the presence of oil mists on the inside of the spray chamber, all of our Sagoma systems are provided with an *oil mist extraction system* with *high efficiency filter*.

An *analogic pressure gauge* ensures the *monitoring of the filter lifetime*.





# SPECIAL SPRAY CHAMBER DESIGN



The particular **shape** of the **spray chamber**, which **wraps** the spray area very closely, ensures a *better control of the overspray* and therefore a *better suction result*.

# ANTI-DROP WIPER

---

Thanks to its transversal movement, the ***Wiper system*** collects the oil drops in the inside walls of the spray chamber and prevents them from falling onto the passing blank.





# OIL MANAGEMENT

DieTronic systems are designed to work with most **oil-media** (pure oils with low, medium and high-viscosity, as well as water-based oils)

- In case of high-viscosity oils → integration with **heating system**
- In case of water-based oils → integration with **dosi-mixer system**



# MULTIPLE OIL MANAGEMENT

In order to manage multiple oil-media automatically and separately, to avoid contamination:

- our systems can be equipped with one or more tanks (each provided with a ***visual and an electric oil level indicator***, displayed also on the touch-screen panel.)
- additional tank for the cleaning product, to perform the ***cleaning of the whole circuit*** before the oil exchange



# CLEANING PROCEDURE



## PURGE

the lubricant from the channel manifold valves to the nozzles is pushed out by compressed air



## CLEAN

the cleaning liquid flows from the channel valves to the nozzles



## DRY

the cleaning product from the channel manifold valves to the nozzles is pushed out by compressed air



## REFILL

The refill of the spray heads is really fast due to the previous steps

# EXTERNAL CLEANING UNIT

- ✓ Quick cleaning maintenance of the spray heads
- ✓ Testing Unit of the nozzles



**Solution 1** – External Cleaning Unit integrated on the side of the oil tanks with trolley



**Solution 2** –Trolley with External Cleaning Unit

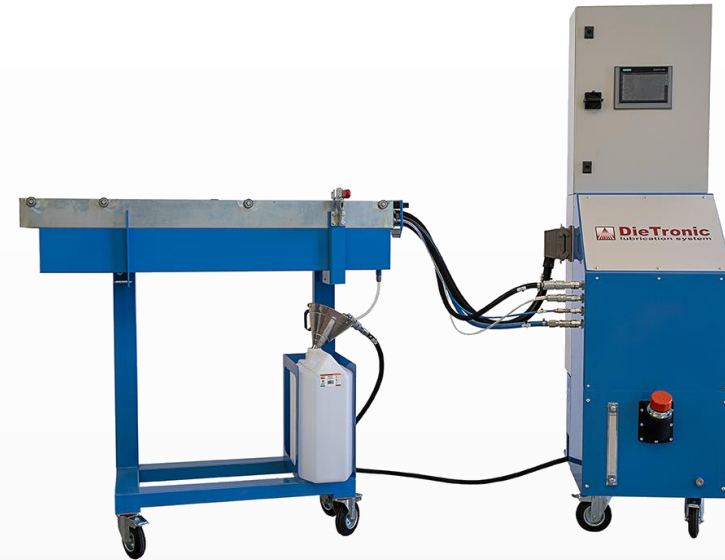


**Solution 3** – External Cleaning Unit integrated on the tank with trolley and Waste tank



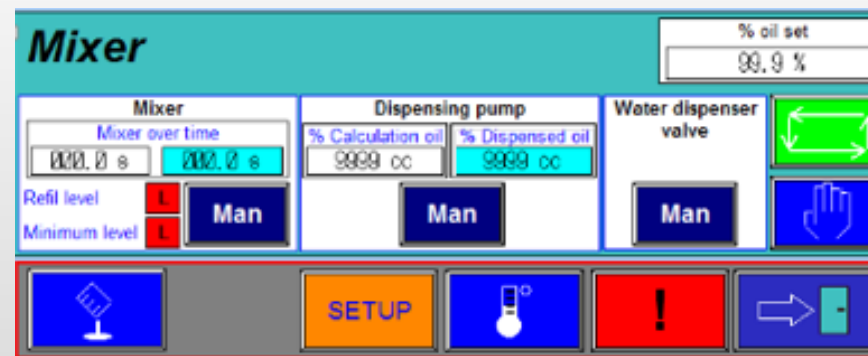
# EXTERNAL QUICK CLEANING UNIT FOR SPRAYHEADS

- To **test the functionality** of the individual nozzles
- To **clean quickly and automatically** and **facilitate off-line maintenance operations** on the spray heads; **without having to stop production**, if you have additional spray heads
- Versatile and adaptable to new or existing lines
- For spray heads of various sizes
- (Possible addition on board the Waste recovery tank



# OIL TANK: DOSI MIXER

- In case of **water-based products**, the tank can be integrated with a *mixing system* that grants a *constant mixture of oil and water*
- The water quantity and the percentage of oil to mix are settable from operator panel



\*to keep the right performance of the machine and good quality of mixed product, we suggest to use demi-water



# AUTOMATIC OIL REFILL

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- Automatic oil refill System from 200 or 1000 lt barrel to the main oil tank
- ✓ No more lubricant manual movements
- ✓ Easier working operations
- ✓ No more environment contamination

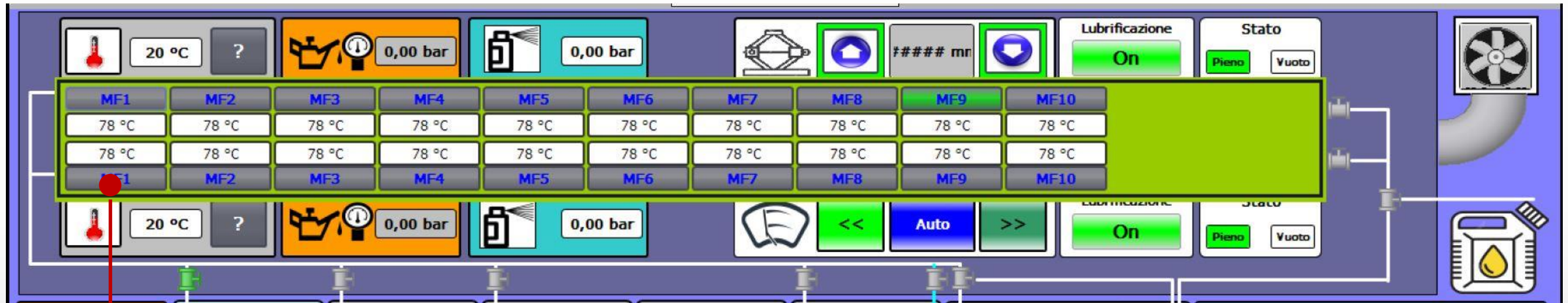


# USER-FRIENDLY OPERATOR PANEL



- 19" Siemens Control Panel
- Adjustment of the oil quantity, from 0,5 to 3 g/m<sup>2</sup>
- 8 different colors identify 8 different quantities
- Possibility to save recipes and recall them

# SPRAYBOX DIAGNOSTICS



- Temperature Monitoring for each single Manifold

# SPRAYBOX DIAGNOSTICS

- Test to check the correct functionality of every single spray nozzle

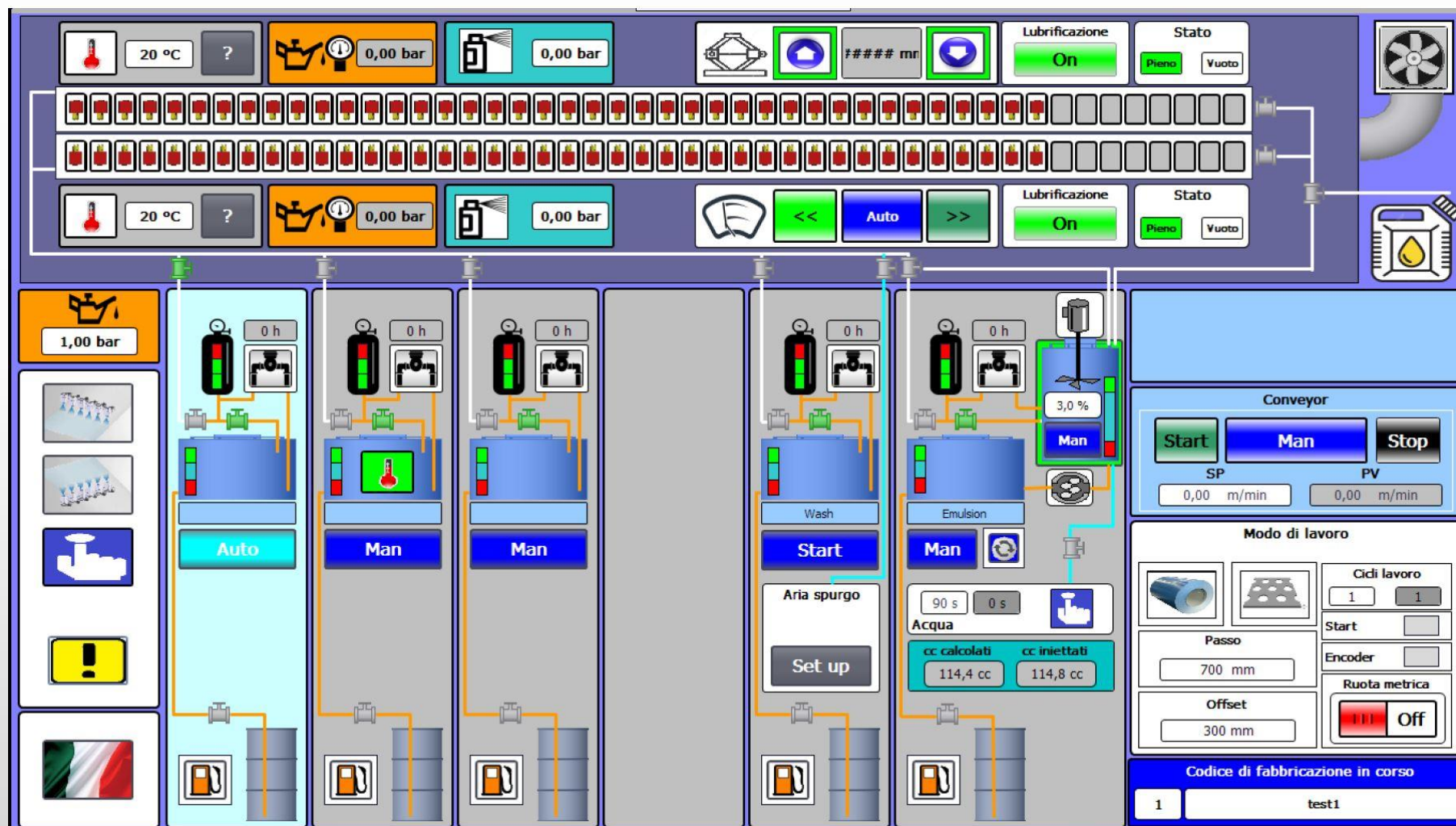






- To check the working time of every single nozzle

# FLUID MANAGEMENT DIAGNOSTICS



# ALARMS

USCITA					
N°.	Tempo	Data	Stato	Testo	
NA 4	17:20:44	18/01/2021	E	Livello massimo accumulatore olio1 superato	
NA 6	19:16:56	14/01/2021	E	Allarme comunicazione profinet	
NA 3	19:16:56	14/01/2021	E	Mancanza aria compressa Spray Box	
NA 14	19:16:56	14/01/2021	E	Protezione 48 Vac intervenuta	
NA 19	19:16:56	14/01/2021	E	Cassetta Spray Box aperta	
NA 28	19:16:56	14/01/2021	E	Intervento termico aspiratore	
NA 36	19:16:56	14/01/2021	E	Intervento termico riscaldamento serbatoio 2	
NA 34	19:16:56	14/01/2021	E	Intervento termico riscaldamento inferiore	
NA 33	19:16:56	14/01/2021	E	Intervento termico riscaldamento superiore	
NA 66	19:16:56	14/01/2021	E	Protezione alimentatore 12Vdc	
NA 65	19:16:56	14/01/2021	E	Protezione raffreddamento quadro	
NA 78	19:16:56	14/01/2021	E	Allarme mancanza aria serbatoio	
NA 77	19:16:56	14/01/2021	E	Allarme motore conveyor	
NA 76	19:16:56	14/01/2021	E	Intervento protezione motore pompa mixer	
NA 72	19:16:56	14/01/2021	E	Livello minimo serbatoio	

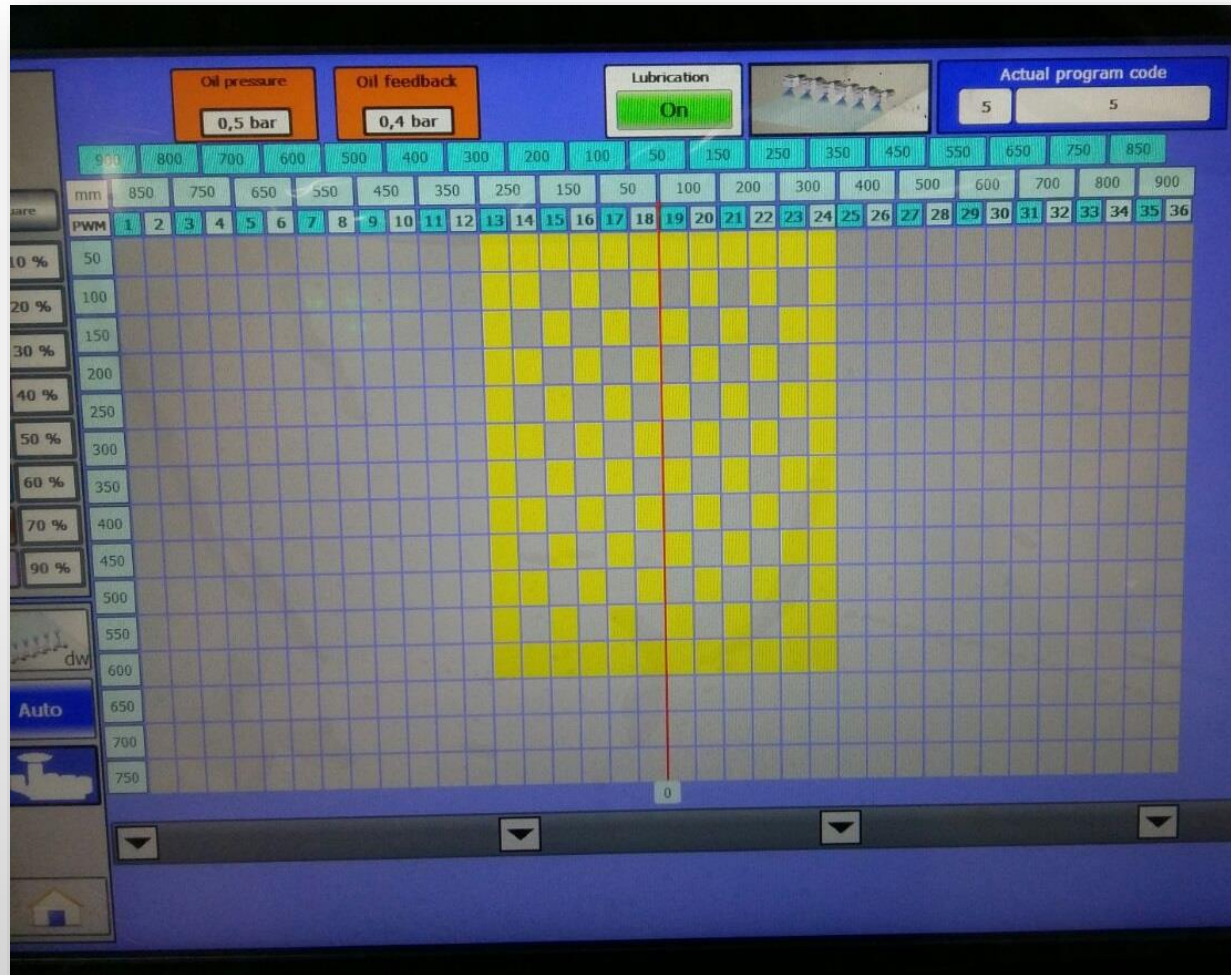
USCITA					
N°.	Tempo	Stato	Testo		
NA 4	17:20:44	E	Livello massimo accumulatore olio1 superato		
NA 4	17:20:43	(E)U	Livello massimo accumulatore olio1 superato		
NA 4	09:45:23	E	Livello massimo accumulatore olio1 superato		
NA 4	09:45:22	(E)U	Livello massimo accumulatore olio1 superato		
NA 42	09:45:22	(E)U	Livello massimo accumulatore Emulsion superato		
NA 80	09:45:22	(E)U	Allarme encoder conveyor		
NA 84	09:45:22	(E)U	Waste tank pieno o disabilitato		
NA 26	09:45:22	(E)U	Livello minimo serbatoio Emulsion		
NA 6	19:16:56	E	Allarme comunicazione profinet		
NA 4	19:16:56	E	Livello massimo accumulatore olio1 superato		
NA 3	19:16:56	E	Mancanza aria compressa Spray Box		
NA 14	19:16:56	E	Protezione 48 Vac intervenuta		
NA 19	19:16:56	E	Cassetta Spray Box aperta		
NA 42	19:16:56	E	Livello massimo accumulatore Emulsion superato		
NA 28	19:16:56	E	Intervento termico aspiratore		
NA 36	19:16:56	E	Intervento termico riscaldamento serbatoio 2		
NA 34	19:16:56	E	Intervento termico riscaldamento inferiore		
NA 33	19:16:56	E	Intervento termico riscaldamento superiore		
NA 66	19:16:56	E	Protezione alimentatore 12Vdc		
NA 65	19:16:56	E	Protezione raffreddamento quadro		
NA 80	19:16:56	E	Allarme encoder conveyor		
NA 78	19:16:56	E	Allarme mancanza aria serbatoio		
NA 77	19:16:56	E	Allarme motore conveyor		
NA 76	19:16:56	E	Intervento protezione motore pompa mixer		
NA 84	19:16:56	E	Waste tank pieno o disabilitato		
NA 72	19:16:56	E	Livello minimo serbatoio		
NA 26	19:16:56	E	Livello minimo serbatoio Emulsion		

- Page of actual alarms on the machine

- Summary of previous alarms on the machine



# SPRAY AREA SELECTION

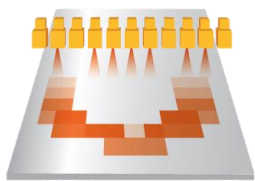




## WASTE TANK

The oil scraps are collected and led to the *Waste tank*, supplied as well with *a level sensor* that alerts when the tank must be emptied.





# A FURTHER SOLUTION: SAGOMA SECTORIAL LUBRICATION MACHINE with CONVEYORS

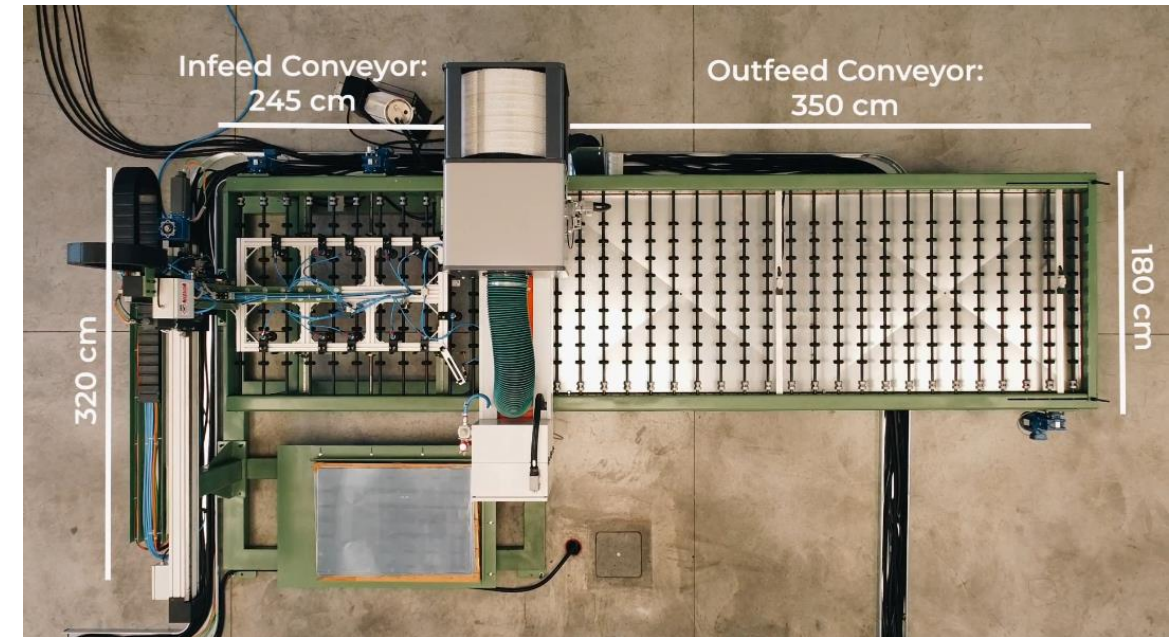
- Infeed and Outfeed conveyors
- Central and Lateral centering system
- Integrability with automated systems (blank destackers, robots,...)







# A FURTHER SOLUTION: SAGOMA SECTORIAL LUBRICATION MACHINE with BLANK DESTACKER and CONVEYORS





# LOCAL TECHNICAL SUPPORT WORLDWIDE



**DieTronic**



**DieTronic**



**DieTronic**



**DieTronic**



Our Team is available worldwide for:

- Technical Support
- Periodical Maintenance Programs
- Possibility of remote assistance (h24)
- Spare Parts Stock, completely available in
  - ✓ Italy
  - ✓ US
  - ✓ China
  - ✓ Brazil

# 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.

**CAVENAGHI & RIDOLFI**  
PRESSE OLEODINAMICHE DAL 1922



 **SANGIACOMO**  
presse

 **MOSSINI** PRESSE

**OMIERI**  
Nel mondo, nel tempo

**ZANI**   
presse

**GALDABINI**  
1890

**NORDA**

 **Hydraulico**

**CoilTech**  
Press Feeding Systems



 **qs group**  
Integrated Industrial Automation

**saronni** s.p.a.



**ASSERVIMENTI**  
SAL PRESSE

 **NOVASTILMEC** S.p.A.  
Cp. Processing Equipment

**TIMAC**  
since 1975

# References Appliance



B/S/H/



**AGA** RANGEmaster

**gorenje**group  
Gorenje GALO, d.o.o.

**Amica**



**VESTEL**





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