

*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.

# 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





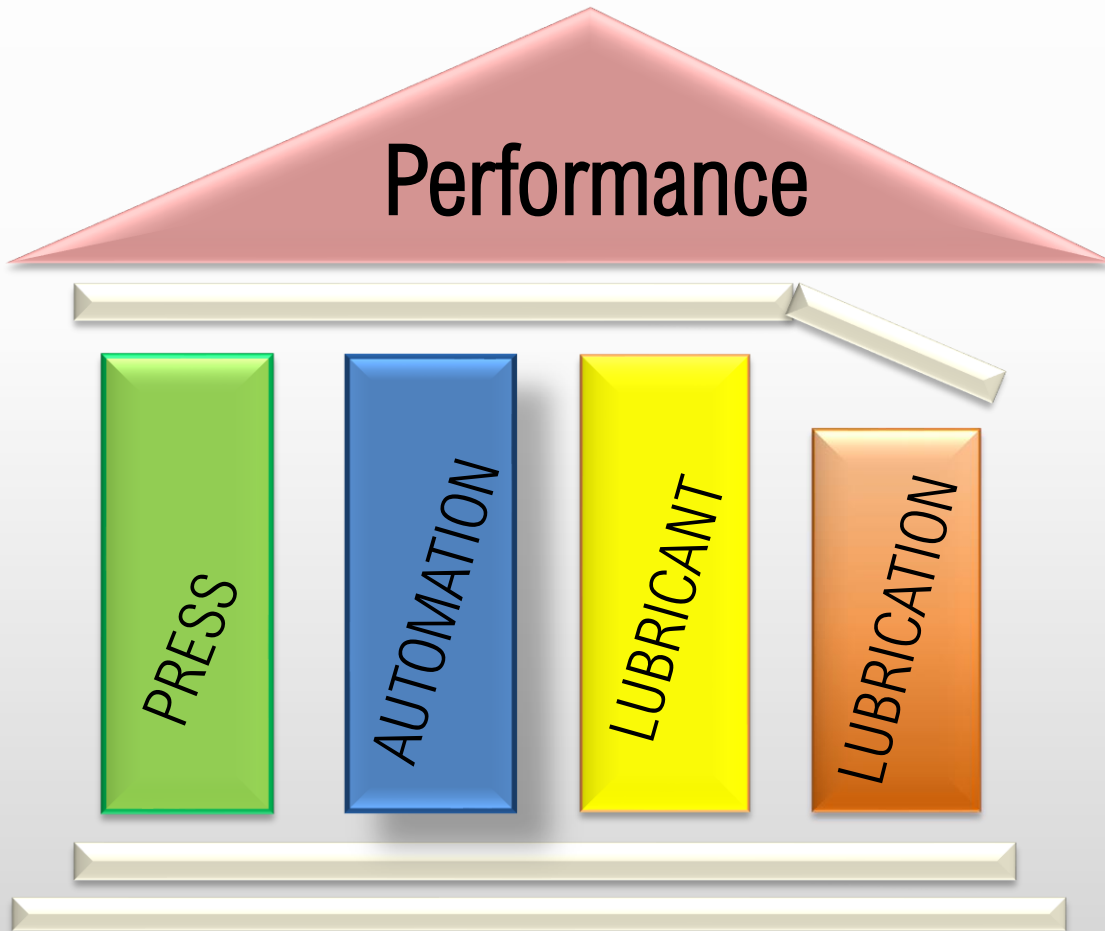
*DieTronic agents and distributors network*

# **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.

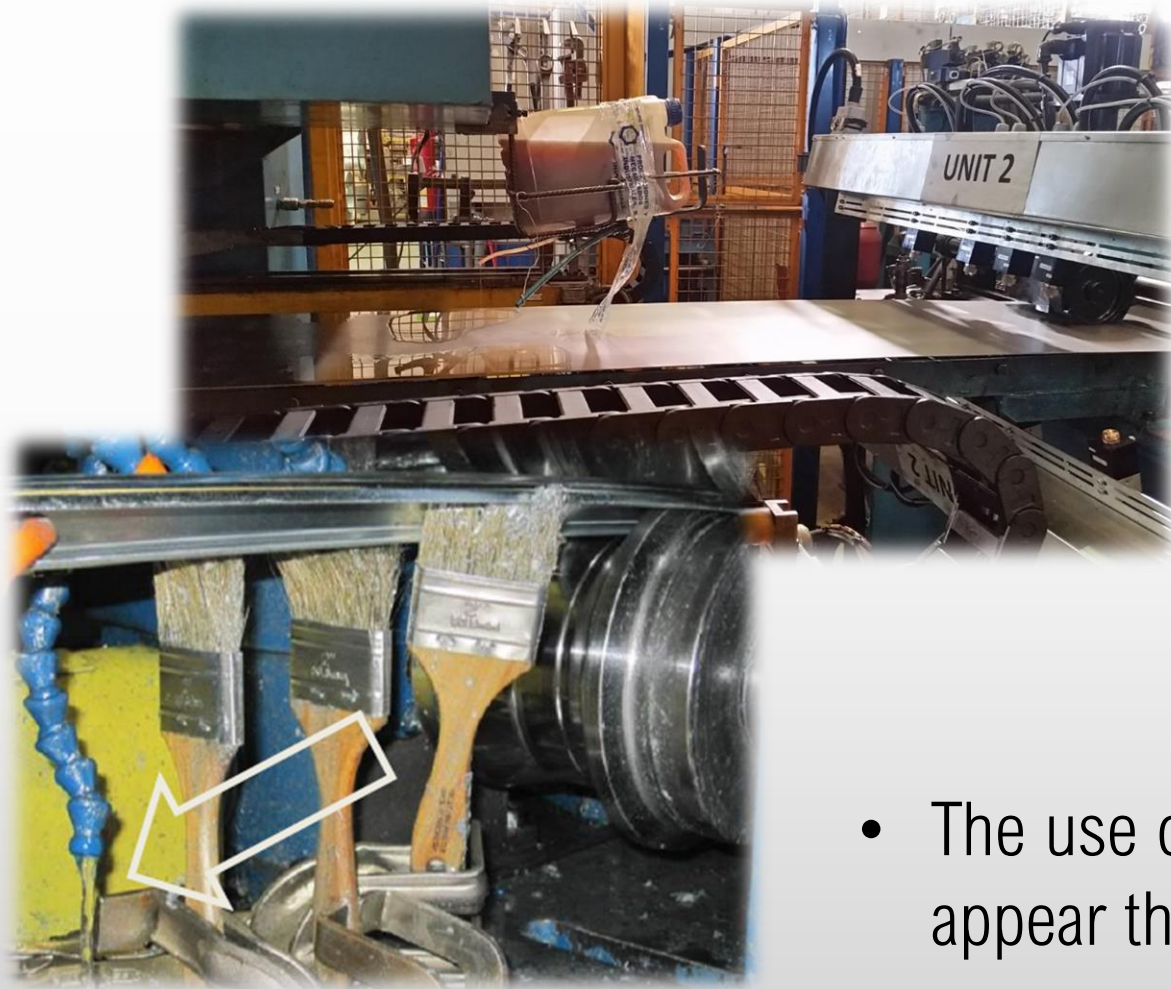
# *THE FOUR PILLARS IN METAL-FORMING*



*The four pillars in Metal-forming*

When talking about metal-forming, the importance of an efficient **press/tooling**, **automation** and **lubricant** is universally recognized, but when it comes to **lubrication system**, many erroneously consider it unimportant and therefore neglect it...

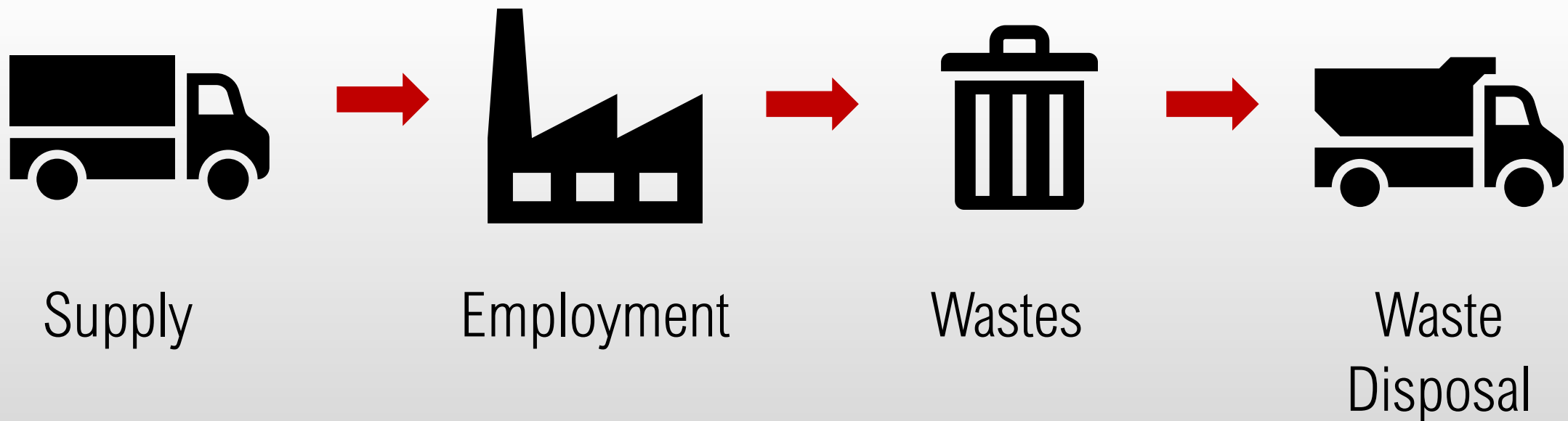
# LUBRICATION IN METAL-FORMING



- Actually, the application and type of lubricant used are important factors in metal sheet processing, as it has a direct impact on the status of the dies, on the quality of the end product, on the working environment,...
- The use of **drip methods, spray bottles, cans** might appear the easiest and cheapest solution but...

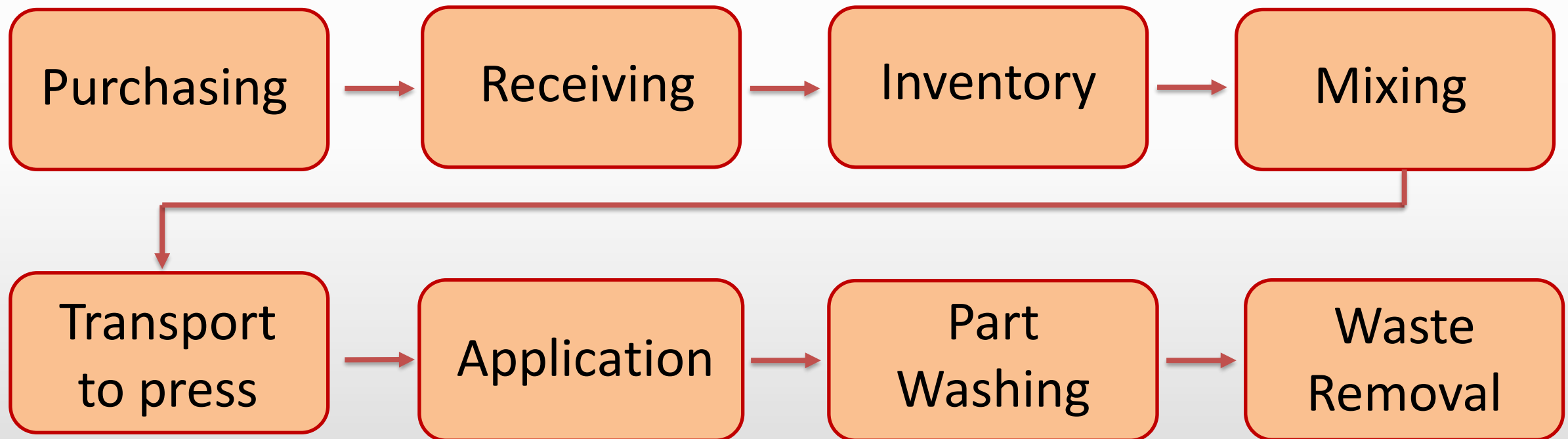
*Examples of homemade lubrication solutions*

# *HOW IS THE TYPICAL FLOW OF STAMPING FLUIDS IN A FACTORY?*

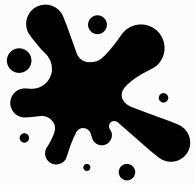




# *WHICH ARE THE PASSAGES OF A FLUID'S LIFECYCLE?*



# *WHEN LUBRICATION IS UNDERRATED...*



it is dirty and messy



it is dangerous

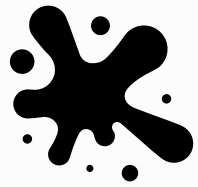


it is expensive



*The consequences of an inaccurate lubrication*

# *WHEN LUBRICATION IS UNDERRATED...*



it is dirty and  
messy

The uncontrolled  
lubricant application  
reflects directly on the  
conveyor, the press,  
the tool and the floor



*An example of uncontrolled lubricant application*

# *WHEN LUBRICATION IS UNDERRATED...*



it is dangerous

The contamination on the environment around the press and the oil mists emission might seriously affect the health and safety of the operators



# *WHEN LUBRICATION IS UNDERRATED...*



it is expensive



It has been proven that the total cost destined to lubricant can be anywhere from 5 to 15 times the initial lubricant cost, as also the related soft costs should be taken into account, i.e.:

*floor cleaning, waste removal, rags, gloves, absorbents, press equipment degradation, influence on die lifetime, scraps parts,...*

# WHY IS A CONTROLLED LUBRICATION SO IMPORTANT?



## 1. SAVING OF LUBRICANT AND ELECTRICAL ENERGY

### A FEW DATA...

\*Considering an annual production of 1.500.000 pieces (on 2 working shifts per day)

	ANNUAL CONSUMPTION	AVARAGE COST	ANNUAL COST	IMPROVEMENT	ANNUAL SAVING
OIL CONSUMPTION	12.000 lt	3,00 €/lt	36.000,00 €/year	80% less	28.800,00 €

# WHY IS A CONTROLLED LUBRICATION SO IMPORTANT?

## 2. CLEANER AND SAFER WORKING ENVIRONMENT



### A FEW DATA...

\*Considering an annual production of 1.500.000 pieces (on 2 working shifts per day)

	ANNUAL NUMBER	AVERAGE COST	ANNUAL COST	IMPROVEMENT	ANNUAL SAVING
ENVIRONMENTAL CLEANING COST	600 h	25 €/min	15.000,00 €/year	50% less	7.500,00 €

# WHY IS A CONTROLLED LUBRICATION SO IMPORTANT?



## 3. REDUCTION OF DOWNTIMES FOR MAINTENANCE

### A FEW DATA...

\*Considering an annual production of 1.500.000 pieces (on 2 working shifts per day)

	ANNUAL NUMBER	AVERAGE COST	ANNUAL COST	IMPROVEMENT	ANNUAL SAVING
<b>DOWNTIMES</b>	6.072 min 101,20 h	5 €/min 300 €/h	30.360,00 €/year	30% less	9.108,00 €



# WHY IS A CONTROLLED LUBRICATION SO IMPORTANT?

## 4. SCRAPS REDUCTION



### A FEW DATA...

\*Considering an annual production of 1.500.000 pieces (on 2 working shifts per day)

	ANNUAL NUMBER	AVERAGE COST	ANNUAL COST	IMPROVEMENT	ANNUAL SAVING
SCRAPS	46.656 parts	5,00 €/parts	233.280,00 €/year	40% less	93.312,00 €

# WHY IS A CONTROLLED LUBRICATION SO IMPORTANT?

## TO SUMMARIZE...

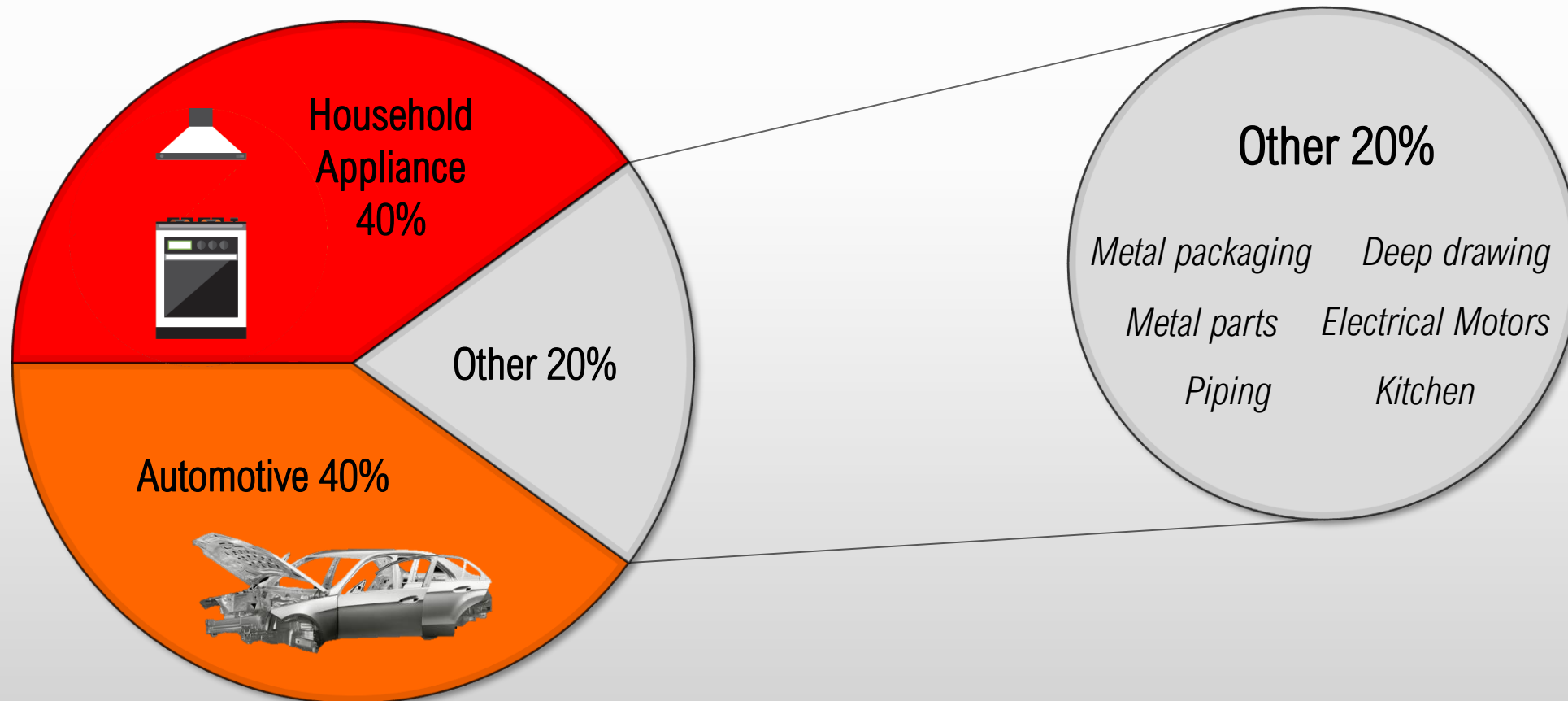
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DOWNTIMES	6.072 min 101,20 h	5 €/min 300 €/h	30.360,00 €/year	30% less	9.108,00 €
SCRAPS	46.656 parts	5,00 €/parts	233.280,00 €/year	40% less	93.312,00 €
<b>TOTAL</b>			<b>314.640,00 €/year</b>	<b>ca. 60%</b>	<b>138.720,00 €</b>

\*Not to mention other aspects that cannot be easily quantified (saving of electrical energy, extension of die-lifetime, better quality of the end products, ...)

# APPLICATION FIELDS

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



# *OPERATOR / MANUAL ORIENTED APPROACH*

VS

# *MACHINE / AUTOMATIC ORIENTED APPROACH*



**Automatic parameter  
setting and tracking**

# DIETRONIC ESSENTIALS

## a solution for every application

MOTOR  
LAMINATION  
SPEED MCL



HOUSEHOLD  
APPLIANCE  
STRIP AND SECTORIAL OILER

AUTOMOTIVE  
(TIER 1, 2)

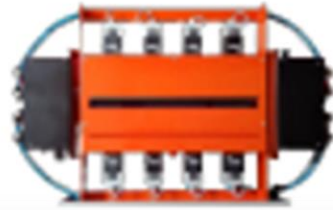


AUTOMOTIVE  
(OEM)

COMBI



# SPEED MCL



## APPLICATION

- Motor Core Laminations
- Electric Contacts
- Small Metal parts



- *Brush Cleaning*
- *Spray application*
- *Lubricant (DI VA 10/6 SP)*

- Designed to work with high-speed and high-precision presses



# Strip and Sectorial

## APPLICATION

- Household Appliance



- Suitable for coil and blanks (of different shapes and dimensions)
- Lubrication in strips or specific areas and oil quantities
- Strip: minimum 100 mm width
- Sectorial: Minimum patterns of 50x50 mm

- Automotive (Tier 1,2)



# Sectorial SAGOMA with conveyors



- Presence of Infeed and Outfeed motorized transport rollers for blank metal sheets
- Side and front centering system
- Easy integration with automated systems (blank destackers, robots)

## APPLICATION

- Sink Manufacturing

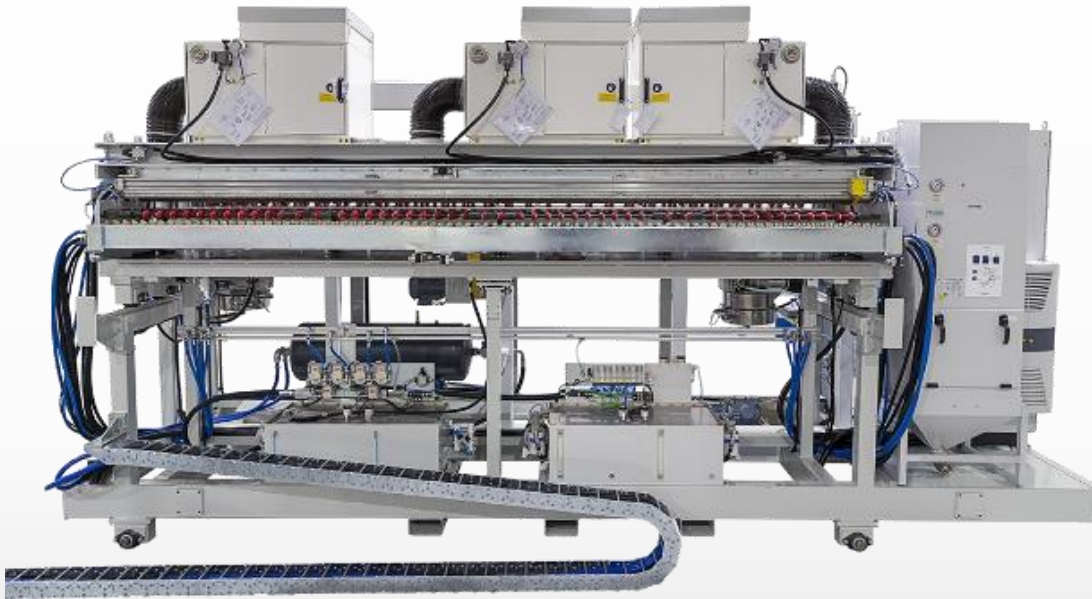




# COMBI

## APPLICATION

- Automotive (OEM)



Combined System:

- Brush Cleaning
- Sectorial spray lubrication
- 100x100 mm patterns



# 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 Integrator



**GÜDEL**

**SCHULER**  
Member of the ANDRITZ GROUP



HYUNDAI  
**Rotem**

**MECFOND** S.p.A.

**CAVENAGHI & RIDOLFI**  
PRESSE OLEODINAMICHE DAL 1922



**SAN GIACOMO**  
presse

**Nidec**  
**ARISA**



**OMER**  
Nel mondo, nel tempo

**NORDA**

**ZANI**  
presse

**Hydraulic**

**CoilTech**  
Press Feeding Systems

**qs group**  
Integrated Industrial Automation

**saronni** s.p.a.



**ASSERVIMENTI**  
AL PRESSE

**NOVASTILMEC** S.p.A.  
C/O Process of Equipment

**TIMAC**  
since 1975

# References Appliance

**FRANKE**

B/S/H/

 **Electrolux**

 **Whirlpool**

 **REGINOX**

 **smeg**

 **Indesit**

**bticino**

 **EPELL**  
soluzioni inossidabili

 **CM**

**ELKAY**

**AGA RANGEmaster**

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

**Amica**

 **arçelik**

**VESTEL**



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**THANK YOU FOR YOUR ATTENTION**