



PVD COATING
MACHINE EXPERTS

PVD COATINGS LEADER

PVD (Physical Vapor Deposition) is a deposition process under controlled vacuum or atmospheric conditions. This method permits to coat any material in any shapes, achieving metallized effects extremely resistant and durable over the time.

We at Kolzer design and manufacture machines for Metallization, PVD Sputtering and Plasma treatments, they are built to meet the different needs of customers. Our machines perform well in all conditions, with all materials and for processing on each substrate.

Ideal solution for high capacity in-line production and compact production stations typical for small and medium-sized companies.

Moreover, PVD is a dry and cold process, does not produce toxic residues or pollutants that are harmful to the environment.

For this reason, our machines allow to obtain an economic, competitive and ecological advantages on the market.

APPLICATIONS



AUTOMOTIVE

The major OEM industrial groups in the automotive sector entrust to our machines the PVD treatments of components and accessories as front panels, mirrors, wheels, ...



FASHION

Fashion industry is in continuous research of new effects, and it implements PVD treatments for a highly requested chrome effect on buttons, accessories, shoes and textiles.



DESIGN

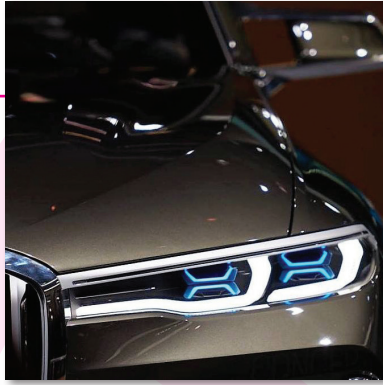
From packaging to lighting, every component of furniture and accessories can improve its appearance thanks to the PVD treatments.



CUSTOM SOLUTIONS & FUNCTIONAL APPLICATIONS

We create complete and integrated PVD systems made on measure to respond to any kind of request.





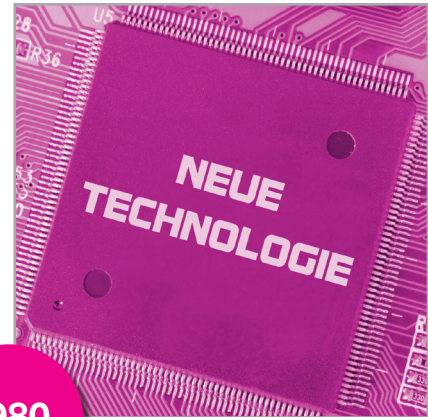
OUR PILLARS

ABOUT US

We are the most recognized PVD brand on the market and occupy a strong and consolidated leadership in the European and worldwide market, proven by the presence of over 1200 machines.

We produce Plasma, Metallization, PVD Sputtering machines, since 1952.

We are an Italian company with a strong growth and predisposition to the global market with 95% of foreign customers.



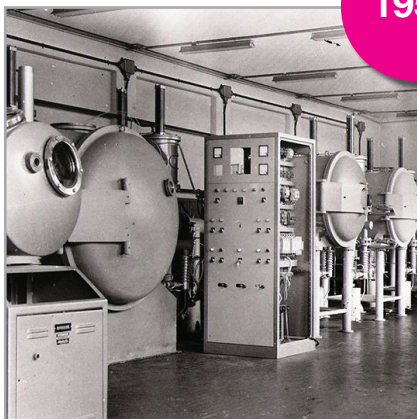
1980

Change from electromechanical automation to microprocessor system



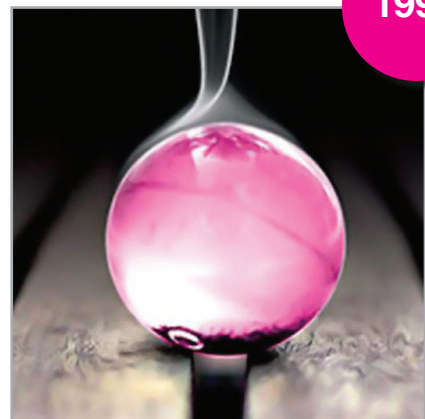
First high vacuum machine

1952



First PECVD plant

1990





CONSTANT EVOLUTION

Our 360° service: research and development, project, manufacture, installation, after-sales service is our every-day task, all these drive us continuously to develop new systems, all made on measure to our client's needs!



PROFITABLE COLLABORATIONS

We create a reliable and strategic partnerships with customers, suppliers and prestigious R&D Centers alike – which permit us to be efficient also in the new business area.



1998

Third generation
Sputtering plant



2005

Completely digital machine
with full on-line access

70 YEARS OF INNOVATION

PC for integrated
process control



2000

Continuous
innovation...

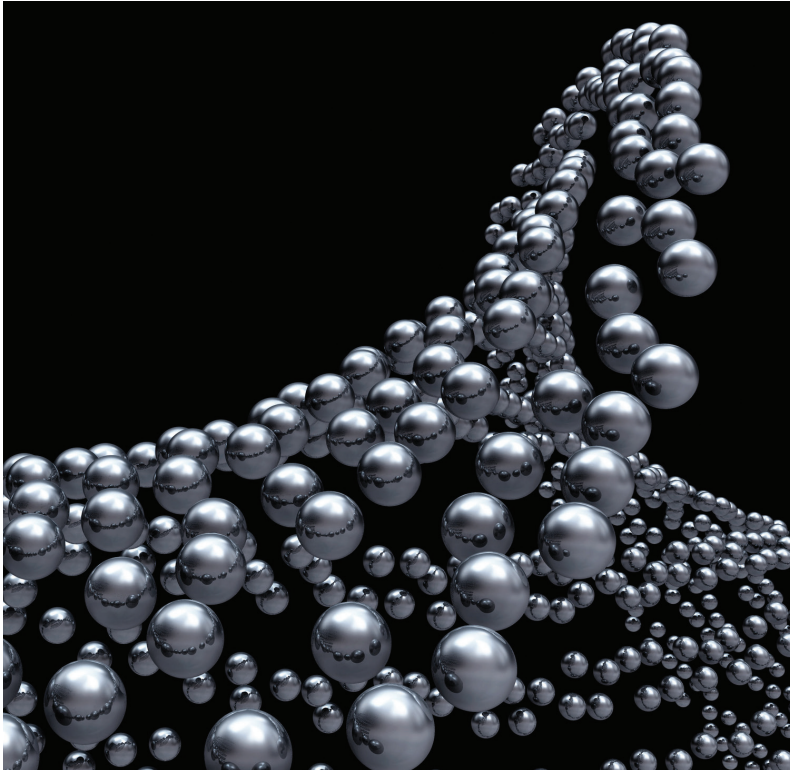


2021

PVD PROCESSES

METALLIZING

The Metallization is the deposition of aluminum thin film layer under vacuum condition, that allows to coat any kind of materials to improve the surface characteristics of resistance, with excellent aesthetic results.



SPUTTERING

The PVD Sputtering process offers great range of metallic colors and shades deposition, which find applications in the automotive, marine, bathroom accessories, design and fashion accessories, home appliances, electronic, lighting, tools and all the industrial components market.



UV PVD CHROME

Chroming is the ideal coating to give products high mechanical performance and at the same time an attractive metallic appearance, increasing the added value to the product.

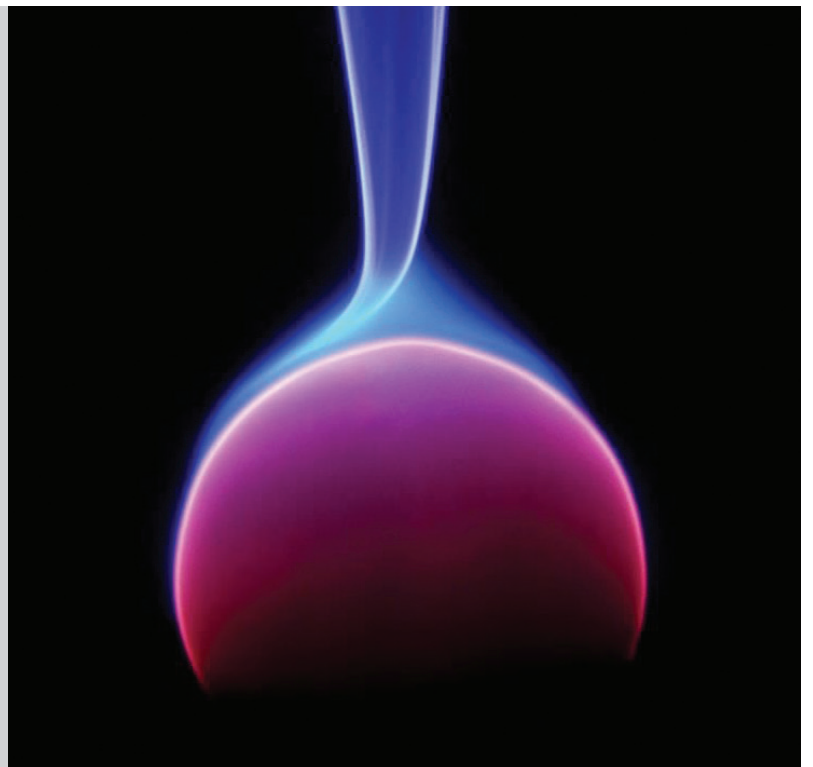
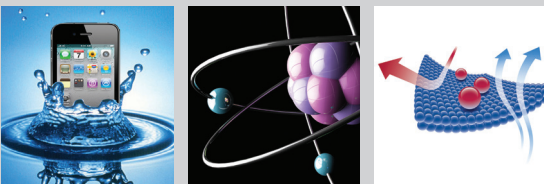
UV PVD chrome plating requires few steps and is able to meet the highest OEM requirements, offering designers more solutions in the design.

The UV + PVD combination is safer, more economical, resistant, durable and more environmentally friendly than galvanic. It optimizes production cycle time and reduce production costs.



PLASMA PECVD

Plasma enhanced chemical vapor deposition (PECVD) is an invisible barrier-effect coating obtained at room temperature, compatible with all the substrates. It is flexible, hydrophobic, anti-adhesive, anti-scale, anti-scratch, anti-wear and non-stick treatment. It can also increase performances of PVD processes (Sputtering, Metallization).



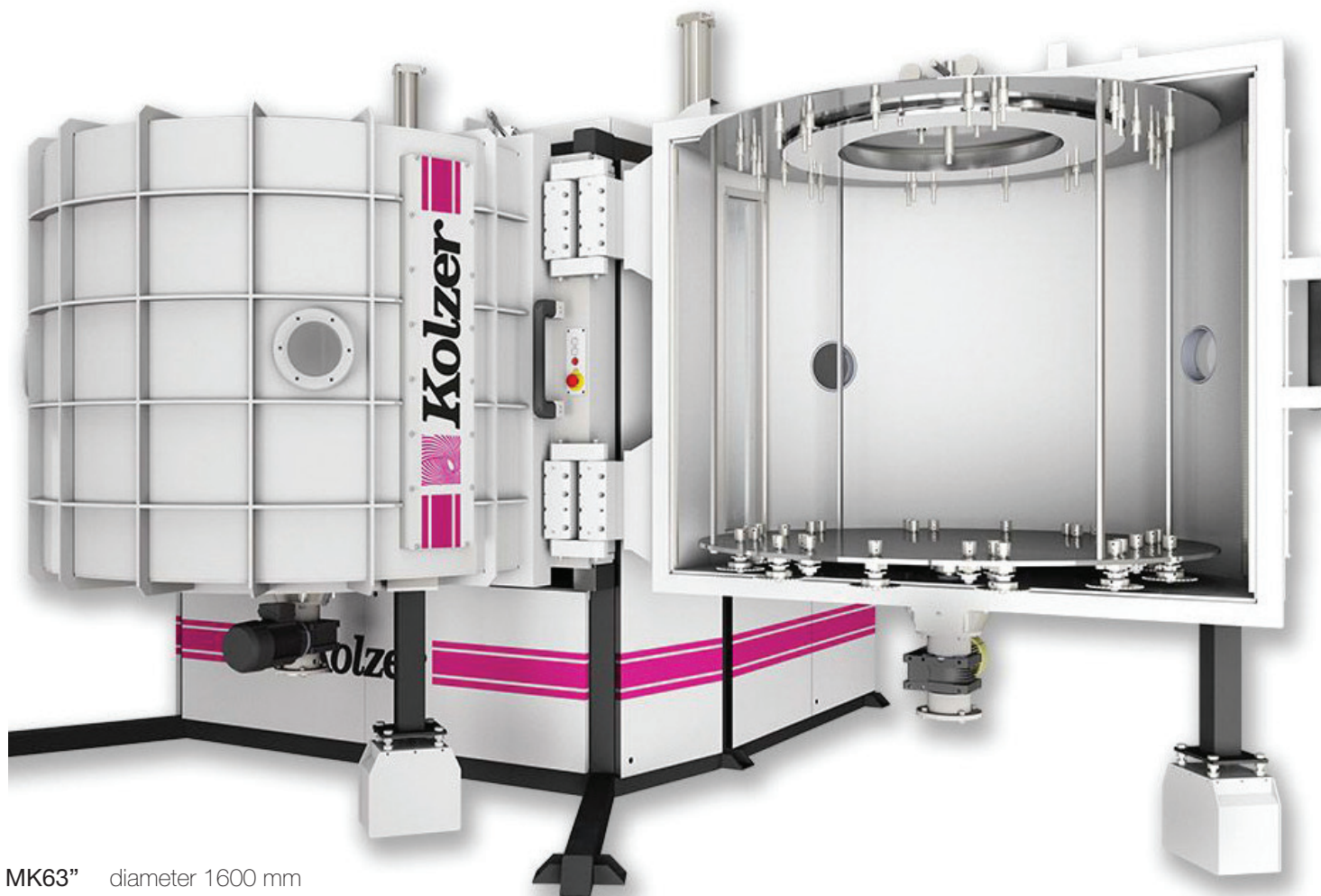
 **Kolzer**

ALL PVD PROCESSES IN ONE SINGLE MACHINE

MACHINES

VERTICAL MK

Machine MK is a symbol of innovation, practicality and design. Vertical system MK offers HIPIMS and all other integrable technologies.



MK63" diameter 1600 mm

ADVANTAGES

CUSTOM MADE MACHINES AND PROCESSES



All machines can be assisted by loading systems, including automatic ones, developed to maximize production capacity.

FAST AND FLEXIBLE CYCLES



The technologically advanced, flexible and multipurpose production systems are able to operate in the shortest cycle time on the market. The automatic control system also eliminates any operator errors.

Our machines offer PVD Sputtering, Metallization, Plasma and PECVD processes to respond to the great range treatments request and requirements.
The machines are designed and built to last over the time and guarantee high productivity.
Low operating costs and production cycles certified as the fastest on the global market, ensure to the Kolzer machines the highest industrial standards, at the most competitive costs.

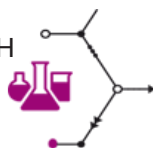
HORIZONTAL DGK

The DGK series allows to have an excellent result with very short cycle times at a lower entry price.



DGK36" diameter 1000 mm
DGK48" diameter 1200 mm
DGK63" diameter 1600 mm

ALL SYSTEMS ARE EQUIPPED WITH A PLASMA CLEANING PROCESS



Plasma treatment improves the adhesion by removing residual material on surface. It can also be used for substrate micro-cleaning.

MULTIPLE COATING TECHNOLOGIES IN ONE SINGLE MACHINE



Kolzer machines allow to integrate different types of processes in one single system to satisfy the future demands of a constantly evolving market.

ON SITE SERVICES AND TECHNICAL SUPPORT



We provide a 360° support to our client carrying out, together with the customer, the acceptance test of system and assist in installation as well as training the staff how to use it, providing transfer technology.

Moreover, we guarantee 24/7 technical assistance by remote control and on-site visit, if necessary.

Finally, we provide indication how to maintain the machine and how to use it at the maximum of its performance, supplying all the spare parts and consumables.

WINDOWS OPERATING SYSTEM WITH 24/7 ASSISTANCE



All the operating phases are managed by a PC with automatic archive and back up, providing real-time reports, system and cycle status data, informing and guiding the operator through the process.

Operator has access to a rich data base of recipes.



WHY KOLZER?



QUALITY

The Kolzer staff consists of researchers, technicians, engineers and a worldwide technical & commercial support network with more than 60 years experience.



RANGE

Kolzer designs, manufactures and installs PVD Sputtering, Metallization, Plasma and PECVD treatment machines. The modular design enables easy expansion at any time.



ASSISTANCE

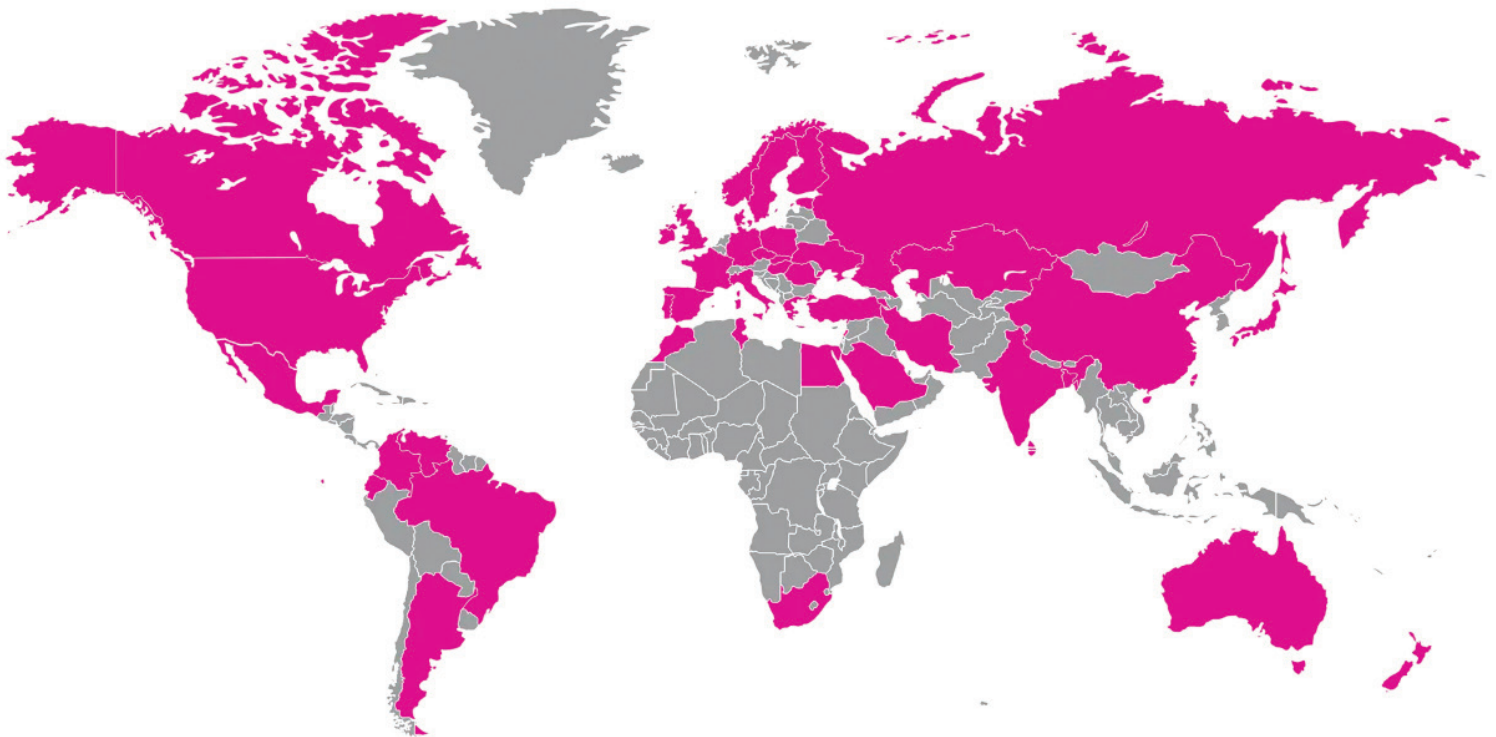
The global consulting network, assistance and punctual Kolzer after-sales service increases the added value aspect of the machines.



KNOW-HOW

Kolzer offers to its clients all the information and big data base of recipes to guarantee the project's success – the real 360° technological and know-how transfer.

WHERE WE ARE



AGENTS AND DISTRIBUTORS ALL OVER THE WORLD

Thanks to our Sales network, consisting of more than 40 agents and distributors, After Sales Service centers and spare parts warehouses, we guarantee a fast and punctual service worldwide. We have more than 1200 installations in 60 countries.



Kolzer



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 **Kolzer**

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