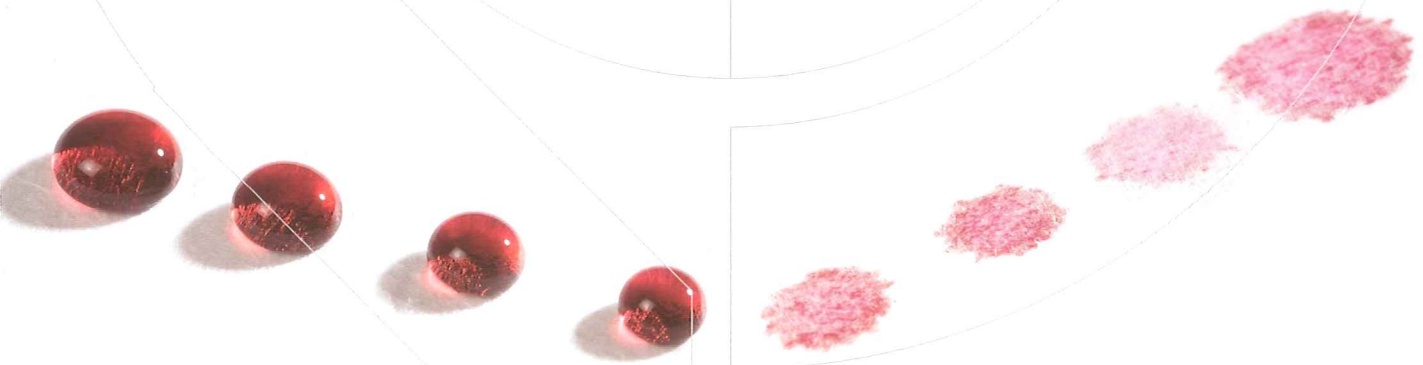


EUROPLASMA

YOUR PARTNER IN SURFACE TREATMENT



ADVANCED SURFACE TREATMENT OF POLYMERS

PLASMA... PLASMA

- **DRY PROCESSING TECHNOLOGY**
plasma technology allows dry processing of materials to achieve new products or replace products of traditional wet processing.
- **WHAT IS A PLASMA ?**
plasma, also called the 4th State of matter, is an electro-magnetic gas discharge, creating an ionising gas. This ionising gas, consisting of atoms, molecules, radicals, ions, electrons, has the potential
 - to super-fine-clean products
 - to activate, etch or finish products
 - to coat materials by plasma polymerisation

SUBSTRATES:

- polymers
- ceramics
- metals

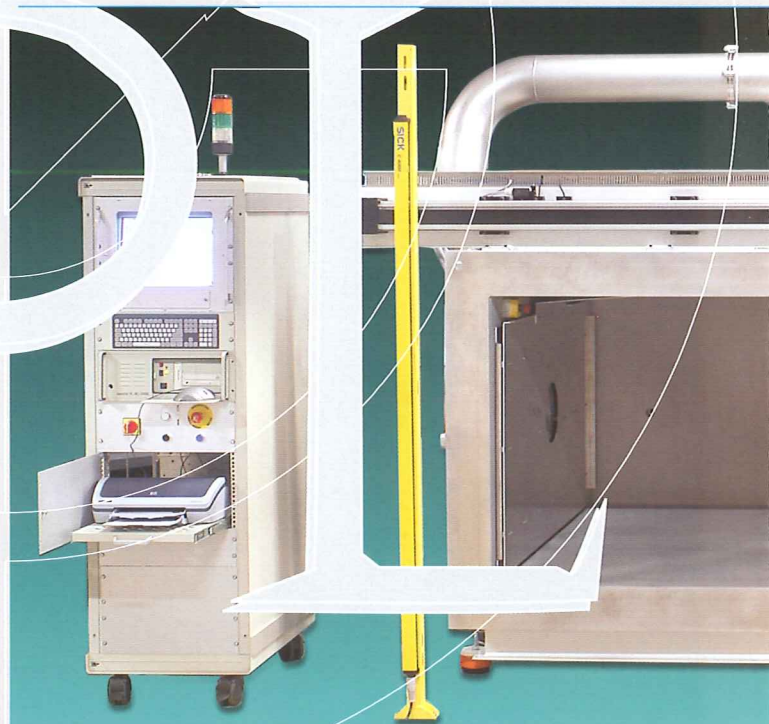
With this technology, it is possible to perform surface engineering without interfering with the bulk properties of the substrate.

WHY USING A PLASMA ?

- **DRY ...**
no solvents, water or heating required.
- **ENVIRONMENTALLY FRIENDLY**
- **FLEXIBLE ...**
various processes possible.
- **QUALITATIVE...**
High level of surface modification and finishing, uniform processing
- **LOW COST PROCESSING**



SPECIALLY EQUIPED
R&D PLASMA UNITS



PLASMA APPLICATIONS

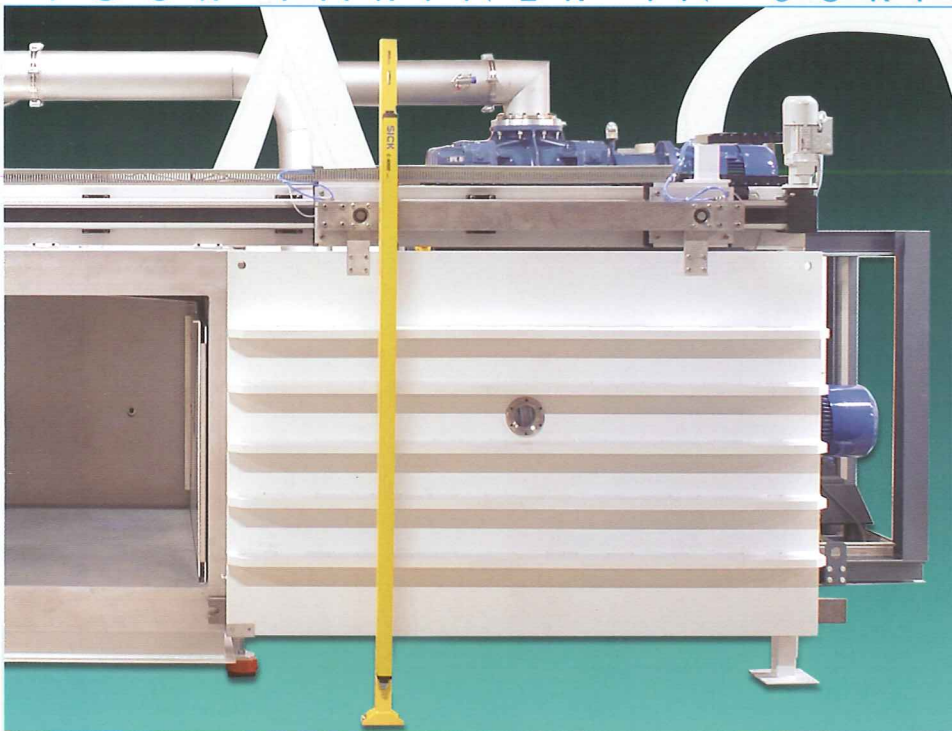
GENERAL APPLICATIONS :

- Activation and cleaning of metallic, ceramic and other polymer surfaces.
- Removal of organic impurities
- Hydrophilisation and activation (chemical functionalisation) of plastic surfaces.

For :

- Automotive : before flocking, gluing or painting of interior parts and before painting of bumpers.
- Medical : before gluing and printing of catheters, valves, syringes, etc.
- Consumer electronics : compact disc player plastic parts, mobile phone covers,...
- Electronic : cleaning and etching of PCB's and connectors.
- Textiles and foams : hydrophilisation, hydrophobation and oleophobation.

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THE PROCESSES

PLASMA CLEANING:

Removal of invisible organic contamination and adsorption layers. Also thin coatings can be removed. A super-fine-cleaning which can solve adhesion problems and improve quality.

PLASMA ACTIVATION:

The preparation of polymer and natural substrates prior to gluing, printing and painting, by creating bonding sites on the surface.

PLASMA POLYMERISATION:

Sub-micron highly cross-linked layer deposition by means of plasma technology to get new structured performance coatings and finishing. Examples are hydrophobic, oleophobic, permanent hydrophilic and barrier coatings.

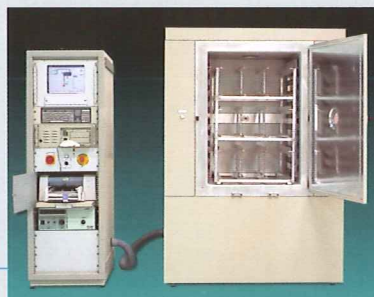
CD300 MC



CD400 PC

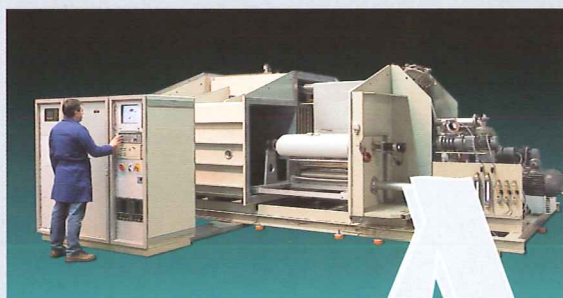


CD1000 PC



STANDARD SYSTEMS

CD roll 1100/600



CD1800 PC

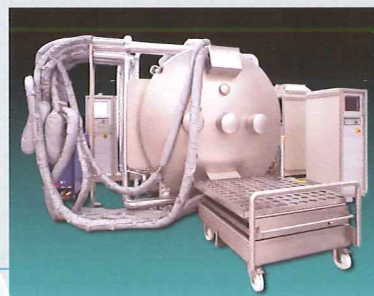


LARGE SYSTEMS

TWIN Machine for
medical application

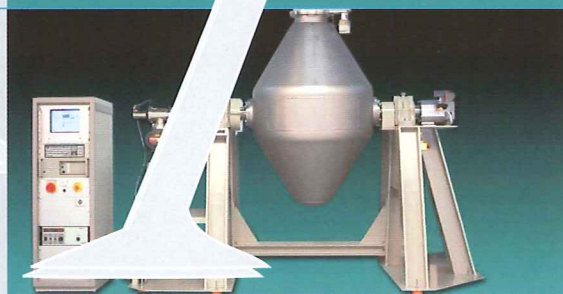


Cleaning system
for optical
instruments

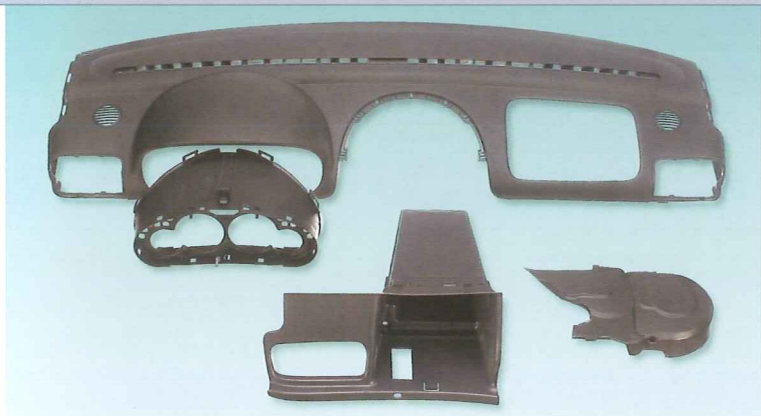


CUSTOM DESIGN

CD1200 PC rotating



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Automotive parts to be plasma treated



Medical parts to be plasma treated



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