

## Cathodic Arc Coating Equipment

Cathodic arc deposition is well known to be one of the most versatile and **COST EFFECTIVE** vacuum deposition techniques.

The Kenosistec KA systems have been designed and manufactured in order to enhance these advantages at their best and to ensure lifetime **RELIABLE OPERATION** in the most demanding conditions.



Kenosistec supplies also **KEY-IN-HANDS** production facilities, including cleaning systems, quality control instruments and integrated **KNOW-HOW** for all production aspects.



Applications in the **DECORATIVE** sector include handles, faucets, watchbands, spectacle frames, fashion accessories, **PLASTIC** parts. A wide range of brilliant colors is available, all with superior hardness and excellent resistance to scratch and corrosion.

Switching production from one color to another is easy and quick, thanks to a user friendly software and to purposely designed technical solutions.



Applications in the **FUNCTIONAL** field range from cutting tools, to moulds, to machinery components.

All metals can be effectively coated, including stainless steels, Al, Ti and Cu alloys, Zn-Al alloys and temperature sensitive materials like 100Cr6.





**LARGE VOLUME**  
deposition chambers allow cost effective coating even of parts having considerable dimensions.  
The addition of cryotrap allows faster pumping times and higher quality coating of plastic parts.

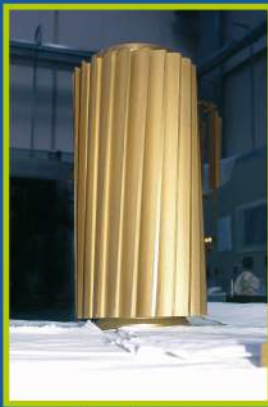
### GENERAL FEATURES

**Deposition chamber:** AISI 304 stainless steel with double wall structure for heating-cooling by forced water circulation. Internal removable shields for easier and faster periodic maintenance. Three temperature closed circuit water circulation unit included in the supply.

**Gas inlet:** up to 5 independent mass flow controllers with individual shut off valve. Constant pressure, constant flow and mixed operation modes.

**Process controller:** PC-PLC system. Fully automatic and manual operations with safety interlocks. Three level password system. Advanced editing functions for writing modifications of process recipes. Highly flexible recipe structure.

Remote assistance and operation. Full process parameters recording. Auto shut off and turn on functions.



large cutting tool



brass handles

### PROCESS TECHNOLOGY

cutting tools  
moulds and forming tools  
machinery components  
handles  
faucets  
fashion accessories (spectacle frames, watch bands, jewellery)  
steels  
non ferrous alloys  
temperature sensitive metals  
plastic materials

### TECHNICAL SPECIFICATIONS

Chamber dimensions, mm  
Overall footprint, mm  
Primary pumping, mch  
High vacuum pumping  
Axial load max  
Substrate bias  
Arc sources (proprietary design)  
Heaters  
Options

#### KA 750

Ø 750, h 900  
2970 x 2000 x 2200 h  
Rotary 90 + roots 500  
Diffusion DN320  
500 kg  
15 kW @ 1000 V DC  
6  
3 x 6 kW  
Pulsed bias with variable duty cycle and frequency  
DC and RF magnetron sources  
LN2 or closed circuit cryogenic traps

#### KA 1000

Ø 1000, h 1150  
3700 x 3300 x 2300 h  
Rotary 250 + roots 500  
Diffusion DN400  
800 kg  
30 kW @ 1000 V DC  
9  
3 x 10 kW

#### KA 1000 2H

Ø 1000, h 1900  
3700 x 3300 x 2900 h  
Rotary 250 + roots 1000  
2 x turbo 2000 lt-sec  
800 kg  
30 kW @ 1000 V DC  
15  
4 x 10 kW

**Kenosistec srl is a company of Angelantoni Group [www.angelantoni.it](http://www.angelantoni.it)**

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