

Time to change your color

Tritron develops and manufactures high-quality digital inks for product decoration.

Our portfolio includes water-based inkjet inks, oil-based inkjet inks, and UV/UV LED curable inkjet inks. Additionally, we offer special pretreatment solutions to enhance adhesion, durability, and image quality on even the most challenging materials, including coatings, plastics, metals, and glass.

We work closely with printhead manufacturers and OEMs to ensure our inks not only meet the requirements of the application, but also perform at the highest level in the printhead.

Thanks to unparalleled innovation, Tritron inks have successfully penetrated markets that had been served by traditional inks and printing methods.

Typical applications:

- Automotive
- Electronic components
- Labels
- Membrane keyboards
- Glass
- In-mould decoration
- Personalized cards
- Print on objects
- Signs and front panels

Industrial inkjet printing

Inkjet inks that are used for industrial printing applications have to meet technical and economical requirements as well as aspects of environmental issues.

The print results are subjected to predefined quality characteristics with respect to print quality, adhesion, and durability.

Ink formulation at the highest level

Inkjet ink formulations can be very complex depending on the requirements of the printing system and the application. There are various parameters, including choosing the appropriate colorant as well as adjusting a set of physical values such as viscosity, surface tension, and migration behavior that need to be considered.

The definition of quality standards, such as image quality, adhesion (e.g.: DIN ISO 2409, DIN ISO 1518) and durability (e.g.: EN 60464-2, DIN EN 61010-1, DIN EN 61010-1) is required.

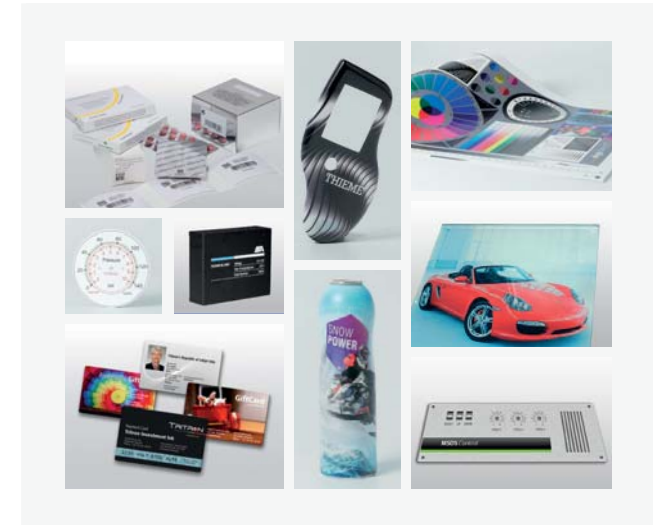
Your advantages at a glance

- Economical printing of short runs
- Short reaction- and production times
- Smooth integration into existing production processes
- Personalization of printouts
- Non-impact printing technologies – preventing surface damage
- Printing onto smooth, rough or uneven surfaces

Unlimited applications

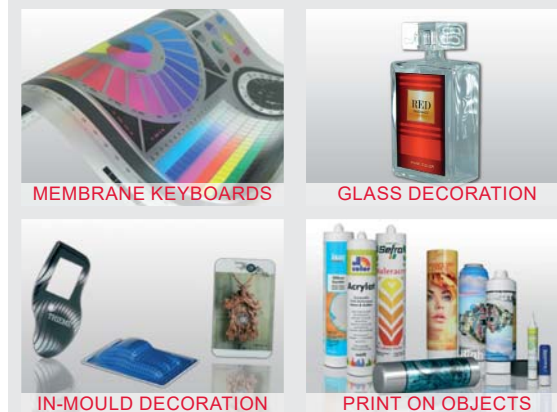
Tritron offers a wide range of inkjet inks that produce high quality images on a wide variety of substrates:

- Coated materials
- Leather
- Plastics (ABS, PA, PC, PE, PP, PS, PVC...)
- Metal (Anodized aluminum, V2A, V4A...)
- Glass



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Inkjet Inks

- UV/UV LED
- HydroGel technology

UV/UV LED

Precise and flexible color print

We offer a wide range of 100 % solid and VOC-free UV/UV LED curable inkjet inks for multi-pass and single-pass applications. Our UV/UV LED inkjet inks deliver high quality images and highly durable prints.



UV/UV LED curable inkjet inks for rigid materials

- Eos** Ricoh (Gen 3, Gen 4, Gen 5)
- V Photon** Konica Minolta (512, 1024, 1024i, 1800i)
- Hyperion** XAAR (126, 1001, 1002)
- Saturn** Kyocera (KJ4A)
- Smart** Dimatix (Galaxy, S- and M-Class, Nova)

Available colors:



UV/UV LED curable inkjet inks for flexible materials

- Eos Adhesive** Ricoh (Gen 3, Gen 4, Gen 5)
- V Photon Adhesive** Konica Minolta (512, 1024, 1024i, 1800i)
- Hyperion Adhesive** XAAR (126, 1001, 1002)
- Smart Adhesive** Dimatix (Galaxy, S- and M-Class, Nova)

Available colors:



Adhesive UV/UV LED packaging inkjet inks

- Eos Pure** Ricoh (Gen 3, Gen 4, Gen 5)
- V Photon Pure** Konica Minolta (512, 1024, 1024i, 1800i)
- Hyperion Pure** XAAR (126, 1001, 1002)
- Smart Pure** Dimatix (Galaxy, S- and M-Class, Nova)

Available colors:

UVC and pretreatments

Unlimited variety and perfect print results

Our 100 % solid and VOC-free UV/UV LED curable inkjet inks produce combined with our pretreatment solutions (also suitable for UV/UV LED) high resolution and highly durable prints.



UVC curable inkjet inks for rigid materials

- Sol** Ricoh (Gen 3, Gen 4, Gen 5)
- Orion** Konica Minolta (512, 1024, 1024i, 1800i)
- Aton** XAAR (126, 1001, 1002)
- UV** Kyocera (KJ4A)

Available colors:



Pretreatment solution

- PA Primer** Pretreatment solution for polyamide
- AL Primer** Pretreatment solution for aluminum
- Glass Primer** Pretreatment solution for glass
- MPA Primer** Pretreatment solution for plastics



Surface activation

We developed special pretreatment procedures for metallic surfaces, plastics, and glass. They can be easily integrated into the printing process or production process.

HydroGel technology

Beyond inkjet boundaries

Our new HydroGel technology enables extreme high resolution, vibrant colors and perfect edge sharpness. The HydroGel technology represents two ink systems of water-based inkjet inks.

Tritron's water-based inkjet inks are based on an uniquely developed ink technology, that allows to print directly onto highly porous material and simultaneously on non-porous materials.

Water-based inkjet inks typically do not adhere properly to demanding substrates, such as plastics, metal, and glass. Our HydroGel technology ensures not only highest print qualities but also perfect adhesive properties and durability on almost any surface by its highly precise color print and thermal fixing of the ink film.



Water-based inkjet inks for rigid materials

- N-Gen** Ricoh (Gen 4, Gen 5)
- Epson (DX 4, DX 5)

Available colors:



Pretreatment solution

- CATS+** Pretreatment solution for plastics
- CWS+** Pretreatment solution for ABS, polyester, foils...
- PPA-5** Pretreatment solution for metallic surfaces



Surface activation

We developed special pretreatment procedures for metallic surfaces, plastics, and glass. They can be easily integrated into the printing process or production process.

Key benefits of our HydroGel technology are high elasticity and plasticity of the ink film, while simultaneous the ink film features high scratch resistance. Thus, there are no limits set of possible applications.

Water-based inkjet inks for metallic surfaces

- MTal** Ricoh (Gen 4, Gen 5)

Available colors:



Water-based inkjet inks for glass decoration

- XTal** Ricoh (Gen 4, Gen 5)

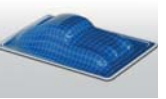
Available colors:



Water-based inkjet inks for in-mould decorations

- IMD** Ricoh (Gen 4, Gen 5)

Available colors:



Water-based inkjet inks for plastics

- PPE** Ricoh (Gen 4, Gen 5)

Available colors:



Water-based inkjet inks for leather

- Corium** Ricoh (Gen 4, Gen 5)

Available colors:

