

Evolve your manufacture.

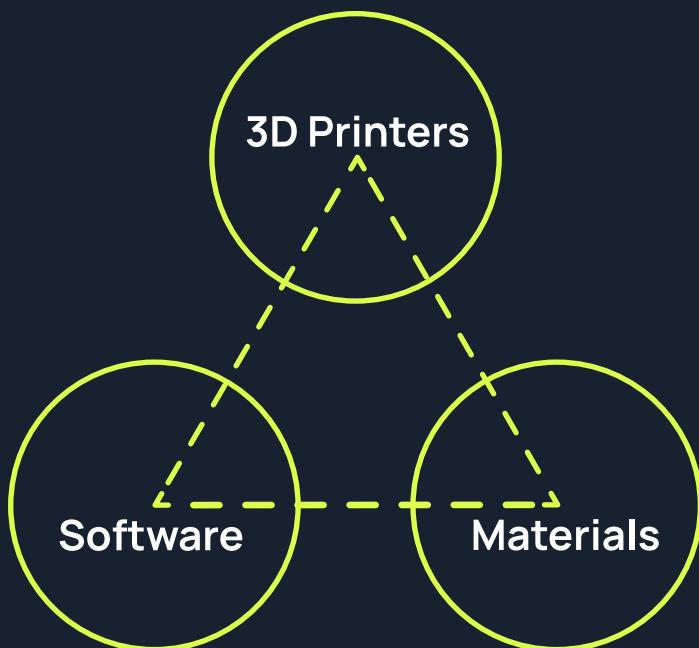
Jewelry & Fashion



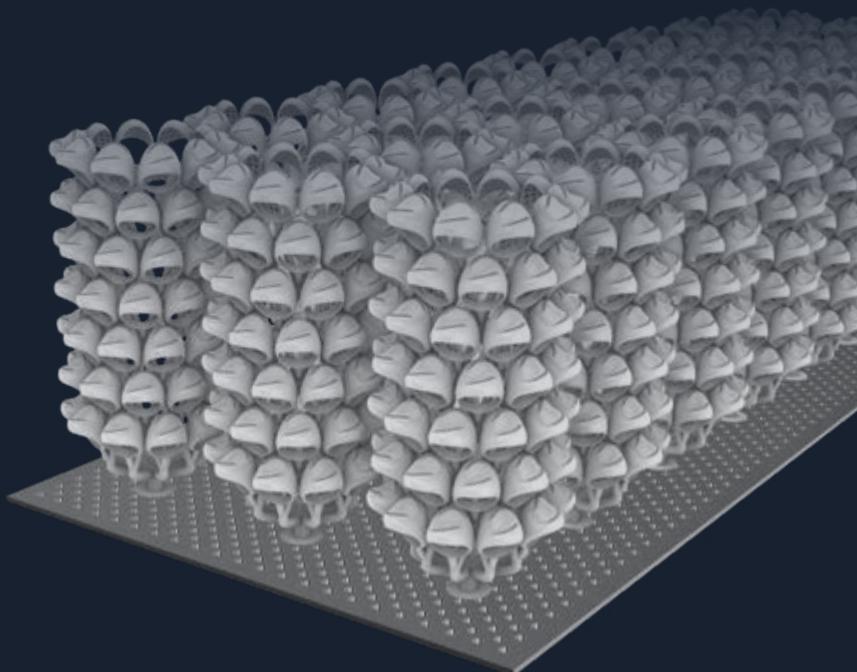
November 2025

Who we are

DWS Systems is an Italian company offering a comprehensive suite of 3D printing solutions, from cutting-edge printers to high-quality materials and intuitive software.



Evolving to large-scale production



XCELL

Sixth generation stereolithography

The XCELL project was created to evolve DWS's stereolithography towards large-scale production.

A novel, scalable technology platform enables the development of printers with varying build volumes, allowing us to meet any customer needs with a tailor-made approach.

XCELL is light engine-agnostic: different irradiation solutions are available to meet any manufacturing requirement.

Smart Coating, a proprietary DWS technology, optimizes material viscosity, quantity, and displacement within the printing area.



Modularity



Light Engine-Agnostic



Smart-Coating



XCELL 300

The XCELL 300 offers an industry-standard print size of 300x300x550 mm, making it the ideal solution for mid-volume production of both small and large parts.

The XCELL 300 is available in two versions:

- XCELL 300S, equipped with a single-laser light engine, ideal for applications in Fashion Accessories and Footwear.
- XCELL 300Q, featuring DWS's proprietary quad-laser light engine, offering the highest resolution available for Jewelry and Eyewear applications.

XCELL 900

The XCELL 900 offers a print size of 900x300x550 mm, providing a unique solution with an ultra-wide build volume for large-scale production needs.

The XCELL 900 is available in two versions:

- XCELL 900S, equipped with a triple-laser light engine, ideal for applications in Fashion Accessories and Footwear.
- XCELL 900Q, featuring DWS's unique twelve-laser light engine, offering the highest resolution available for Jewelry and Eyewear applications.

Discover more
about XCELL line





Industrial-grade 3D printers

The XPRO line includes a full range of industrial printers for prototyping and the production of products in Jewelry, Fashion Accessories, Eyewear, and Footwear.



XPRO printers play a key role in every stage of the industrial process, from design verification to the production of finished products.

A portfolio of over 100 proprietary materials, along with a quick material change concept, provides XPRO with the highest versatility and the broadest application range.

DW 029 MKIII

Professional 3D printers

Discover more
about DW029MKIII



The third generation of the best-selling DigitalWax 029.

With a print size of 170x170x200 mm, the DW 029MKIII represents the professional solution for the production of parts with high accuracy requirements.

A radically simplified user experience, thanks to:

- New film-based tank system
- Easy tank positioning and simplified platform locking
- Automatic zero setting
- HTT (Heat Transfer Technology) improves material viscosity control
- BluEdge standard laser engine, with an optional High Resolution version

DW 028 XLHR

Professional desktop 3D printers

Discover more
about DW028XLHR



For more than 15 years, the DigitalWax 028 has represented the highest quality standard in 3D printing for jewelry manufacturing, used by hundreds of customers worldwide.

The DW 028XLHR is the latest version of the iconic DigitalWax 028, perfected with the latest electronics and equipped with the legendary HR laser engine.

With an expanded print size of 100x100x100 mm, the DW 028XLHR is the best solution for prototyping and small-batch production with the highest accuracy requirements:

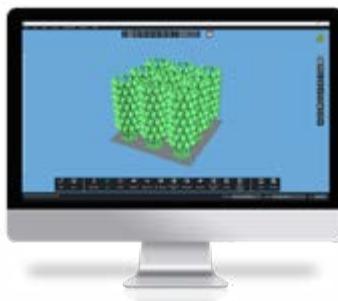
- New film-based tank system
- Easy tank positioning and locking
- BluEdge High Resolution laser engine

NAUTA XCLUSTER

Fully digital workflow for casting applications



Nauta+ software
XCluster Chain plug-in



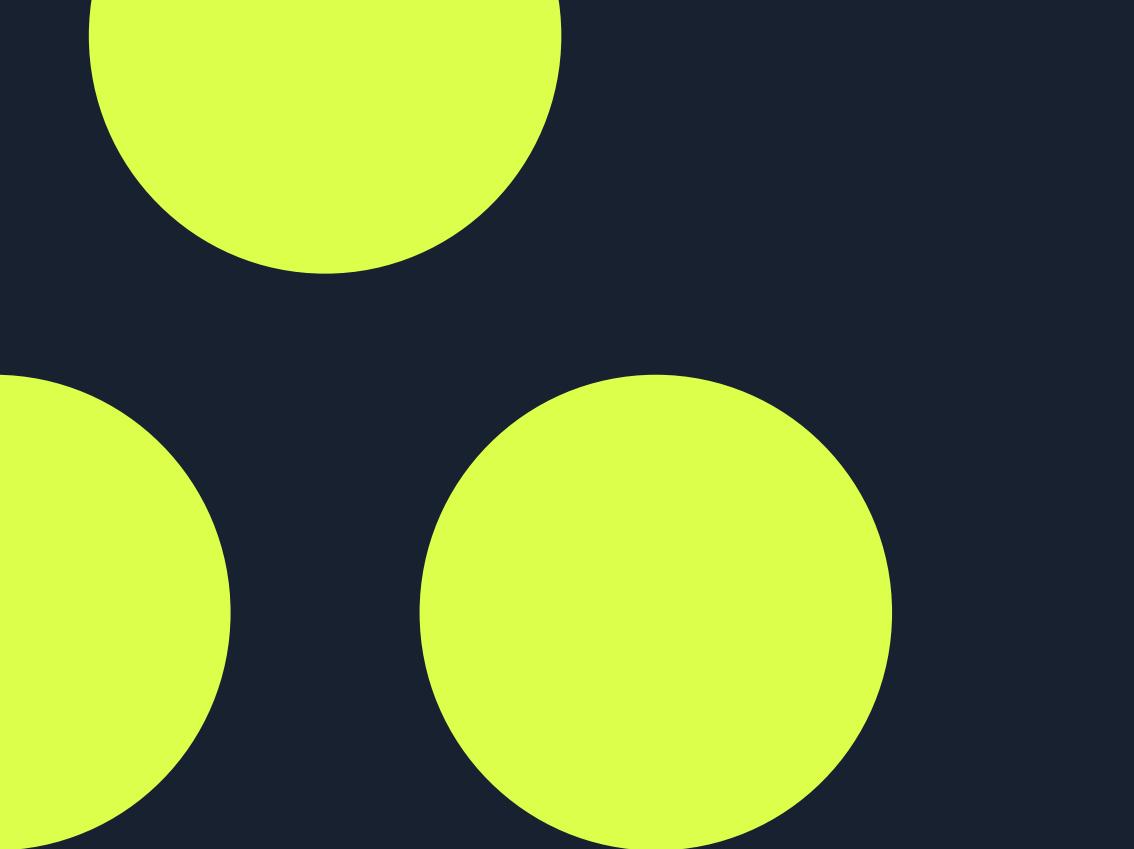
Nauta+ software
XCluster plug-in

A paradigm shift in lost wax casting.

Characterized by the absence of central core elements, DWS's proprietary XCluster technology enables full automation of the casting process, delivering the highest productivity along with perfect quality and repeatability.

By using XCluster, our customers benefit from unique advantages:

- Fully digital and automated workflow
- Elimination of conventional tree preparation processes
- Increased productivity
- Total scalability in both quantity and variety
- Optimization of thicknesses and weights
- Unparalleled cost reduction



The main applications

JEWELRY &
FASHION ACCESSORIES



IRIX
TUNGSTEN

Irix Tungsten is an advanced material used to create high-quality products, renowned for its hardness and impact resistance due to its high ceramic content. This makes it exceptionally durable and ideal for intricate designs that require both strength and style.

The surface can be treated to achieve various finishes, such as a sandblasted matte texture or a glossy painted finish, while always maintaining a smooth, metal-like feel to the touch.

The combination of aesthetic versatility, toughness, and tactile smoothness makes Irix Tungsten the perfect material for luxury products, offering both beauty and functionality.

The linked bracelet is produced using XCluster Chain technology, which enables the creation of pre-linked chains without the need for assembly.

LOST-WAX CASTING



3D-printed casting tree made in Fusia Digital Wax



Result obtained using the lost-wax casting method

FUSIA **DIGITAL WAX**

Experience the precision of SLA resin 3D printing with our latest castable material – engineered to deliver exceptional surface quality and effortless wax-like burnout, qualities that are perfect for detailed casting.

Fusia Digital Wax has an opaque green color tone that aids in the visual inspection of surface details. It is particularly recommended for jewelry production with smooth, expansive surfaces and is valued for its high level of pattern repeatability.

Additionally, it is used for creating individual parts, including those in industrial applications, that require lost-wax casting.

FASHION ACCESSORIES



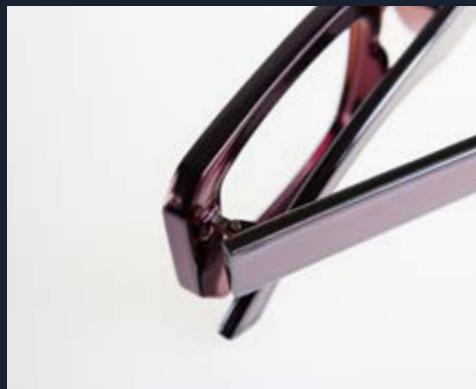
INVICTA 2020

Fashion accessories can be created using various types of surface treatments, including gold plating or metal sputtering.

The image shows bracelets produced using 3D printing with Invicta 2020 material, which, together with the DW029MKIII 3D printer, enables the creation of objects with very high aesthetic quality, allowing for geometries that cannot be achieved with other methods.

The use of 3D printing offers numerous advantages, including:

- Geometries with no limits in complexity
- Highly detailed features
- Low production costs
- Reduced time to market



INVICTA DIGITAL
PA55

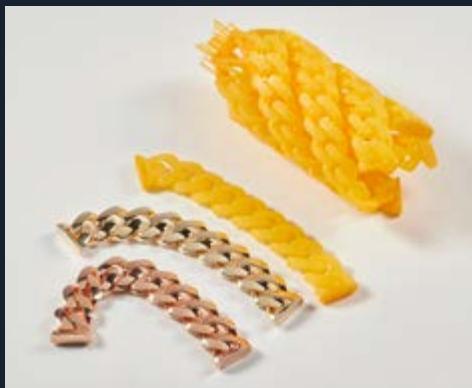
The world of eyewear is constantly evolving, and, like in fashion, the market demands new products in ever-tighter timeframes.

3D printing is working alongside eyewear companies to support the development and design of new products, even extending to the pre-production of small, limited-edition series.

Endpieces and temples can be 3D printed with housings to precisely embed hinges and cores, making the assembly phase simpler and more functional.

The materials can withstand typical treatments such as hypoallergenic clear coatings or sputtering. Invicta Digital PA55 is specially designed to resist impact, making it ideal for products that require both strength and flexibility.

LOST-WAX CASTING



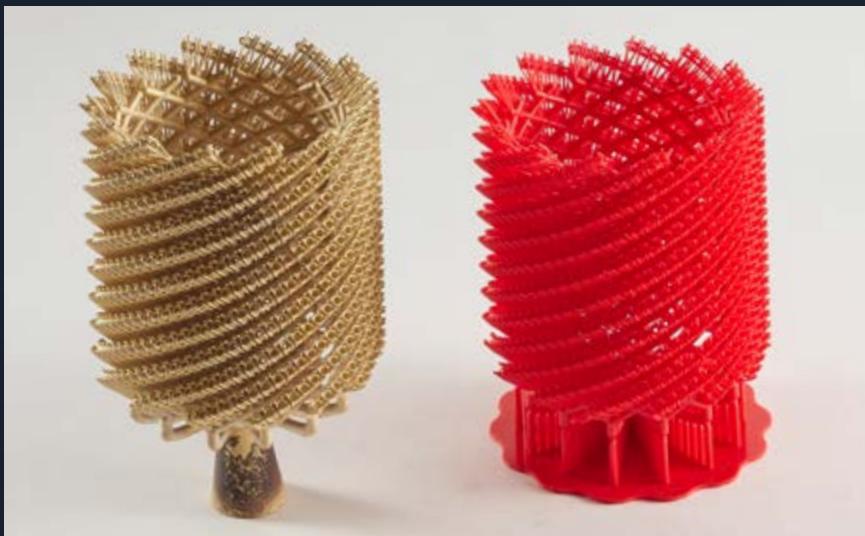
FUSIA 445

FUSIA 445 is a castable material suitable for the production of jewelry and fashion accessories, designed to be cast in various metal alloys.

Although FUSIA 445 is renowned as a general-purpose material, it is often preferred for manufacturing large cross-sections and designs with wide surfaces.

Smooth surface quality, excellent castability, and elasticity for preset stones are among the most appreciated features of this best-selling material.

LOST-WAX CASTING



FUSIA **DC905**

Fusia DC905 is a castable and precise material with very high performance for jewelry castings.

It is recommended for the production of jewelry requiring high detail and tight tolerances between elements, including tennis-style diamond chains and special links.

It is also recommended for the production of ultra-thin pieces and filigrees and is suitable for pre-set stone applications.

JIGS & FIXTURES



INVICTA DIGITAL

PA60

Invicta Digital PA60 is a stiff and tough material, comparable to standard ABS. It is particularly suitable for replacing CNC-machined steel or aluminum, making it ideal for the manufacture of strong and durable parts that require high impact strength and stiffness, such as tools, jigs, and fixtures.

Assembly lines for watches, jewelry, and fashion products can benefit from significant cost reductions, unparalleled flexibility, and unique anti-scratch properties.



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MADE IN ITALY