

RAPID MANUFACTURING SYSTEMS

dfab[®]

FOR DENTAL CLINICS



DWS



DWS Additive Manufacturing

DWS, Digital Wax Systems, was founded in Vicenza in 2007, drawing on lengthy consolidated experience in prototyping.

DWS develops hi-tech solutions for prototyping and high-speed production, with the aim of reducing development times for new products and, as a consequence, time to market. These systems have become must-haves and strategic resources for corporate competitiveness. The goal of DWS is to innovate processes to make production faster and more flexible.

DWS is the only Italian company today capable of developing systems for prototyping and rapid production through implementation of stereolithography technology, with in-house manufacture of all the necessary resins and materials. It exports 95% of its production to over 60 countries around the world and is divided into four business units: jewellery, dental, general applications and, from today, also consumer goods.

The advantages that qualify DWS as an excellence can be summarised as follows:

- the use of new-gen photosensitive resins and materials developed in-house
- the innovative BluEdge® laser system
- dedicated 3D editing and manufacturing software
- the absence of the immersion in resin phase
- speed, accuracy and high surface quality.

The production process is one of its kind and protected by international patents. DWS is leader in the jewellery sector and also an important player with very interesting solutions for the dental sector and industrial applications in general.



Dental Lab & Clinic



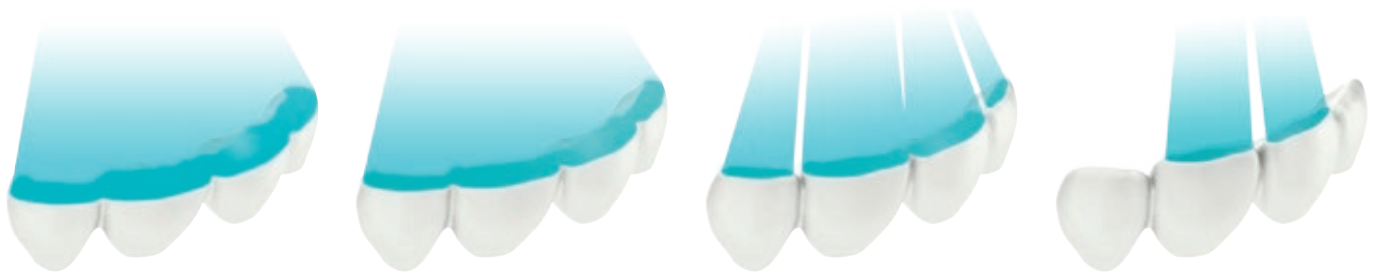
Jewelry & Fashion



General applications

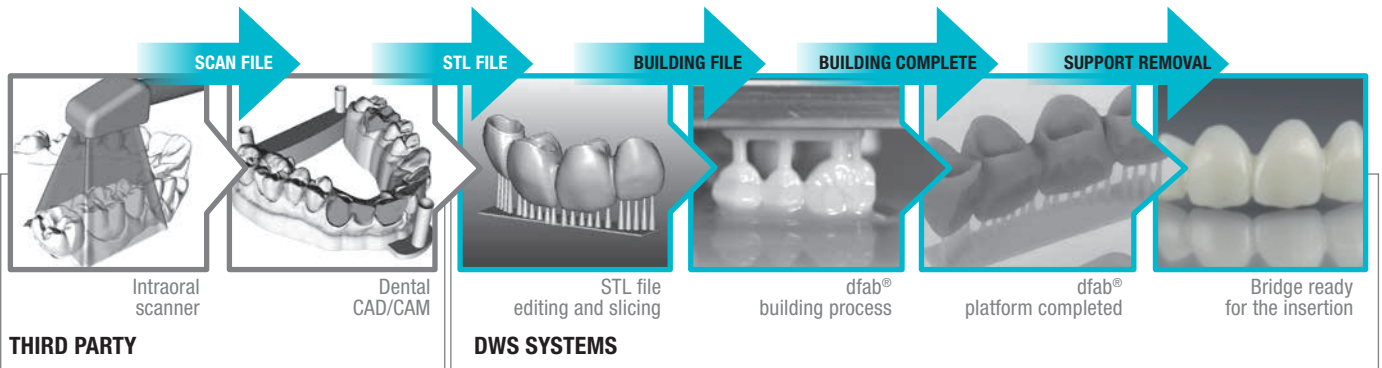
dfab® building process

The bridge is created layer by layer



DWS innovative DPRS® Digital Provisional Restoration System® consists of dfab®, a patented 3D Additive Manufacturing system and TEMPORIS®, a class IIA light curable material range for the fabrication of long-term temporary crowns and bridges.

DPRS® PROCESS



DESKTOP Version

ADDITIVE FABRICATOR

Design by DWS

dfab® desktop is an ultra-fast, desktop size additive manufacturing system fully compatible with the majority of intraoral scanners and open dental CAD/CAM solutions. The compact form factor and the affordable price makes dfab® desktop the ideal rapid manufacturing solution for dental clinics.



CHAIRSIDE Version

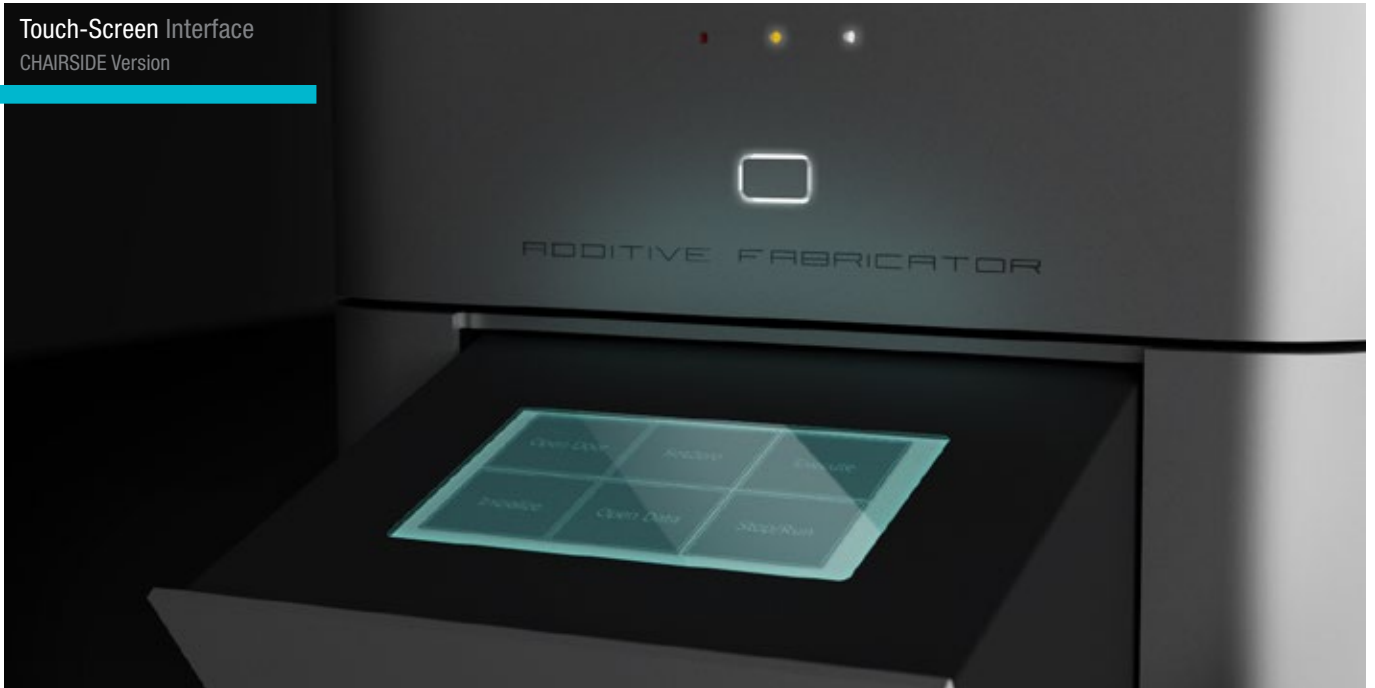
ADDITIVE FABRICATOR

Design by DWS

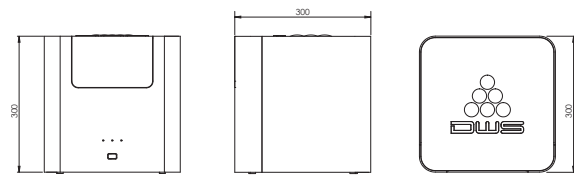
dfab® chairside is an all-in solution which integrates a personal computer and a touch-screen visual display. dfab® chairside is the perfect companion of any intraoral scanning unit, giving the full power of instant-manufacturing of high quality temporary restorations during a single appointment.



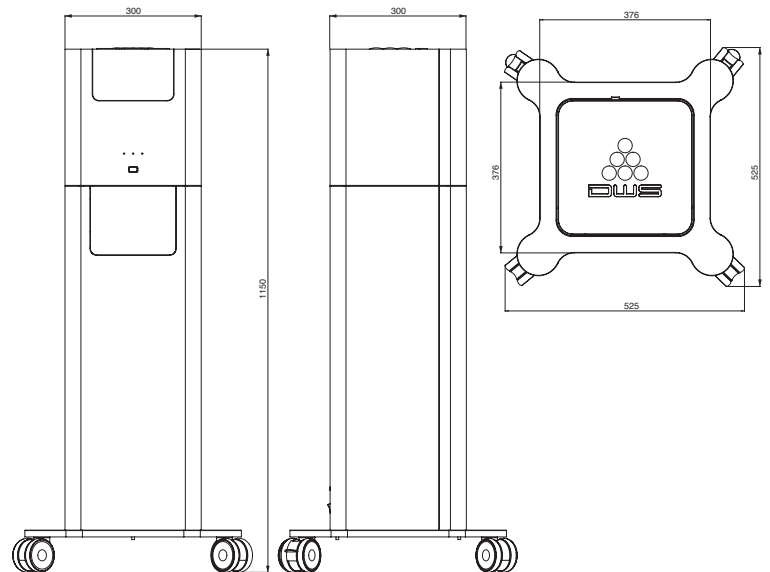
Touch-Screen Interface
CHAIRSIDE Version



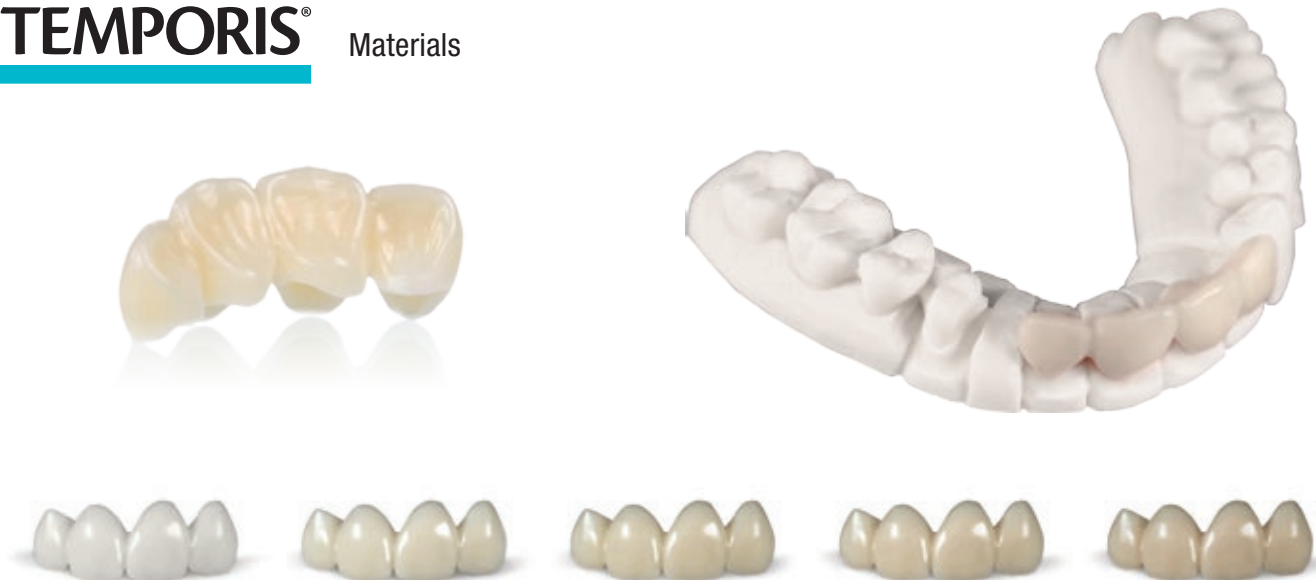
DESKTOP Version



CHAIRSIDE Version



TEMPORIS® Materials



TEMPORIS® - Digital Provisional Restoration System®

TEMPORIS® is a class IIA light curable material range for the fabrication of long-term temporary crowns and bridges. In order to meet esthetic and functional requirements, TEMPORIS® materials are available in different shades and they can be trimmed, shaped and polished. For a perfect customization, TEMPORIS® materials can be layered with light curable composites and personalized with light-curing stains.

Type	Application	Features
DD-1000-N	Long-term temporary restorations, class IIA*	BL3 shade
DD-1000-A1	Long-term temporary restorations, class IIA*	A1 shade
DD-1000-A2	Long-term temporary restorations, class IIA*	A2 shade
DD-1000-A3	Long-term temporary restorations, class IIA*	A3 shade
DD-1000-A3.5	Long-term temporary restorations, class IIA*	A3.5 shade
DD-1000-B1	Long-term temporary restorations, class IIA*	B1 shade

* The polymer is to be considered a long-term invasive medical device in class IIA as provided for by the Rule 5, Annex IX, Dir. 93/42/EEC and subsequent amendments.



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