

CADdent®

Dimensions of the future



3D-PRINTING



3D-PRINTING

THE NEW FREEDOM

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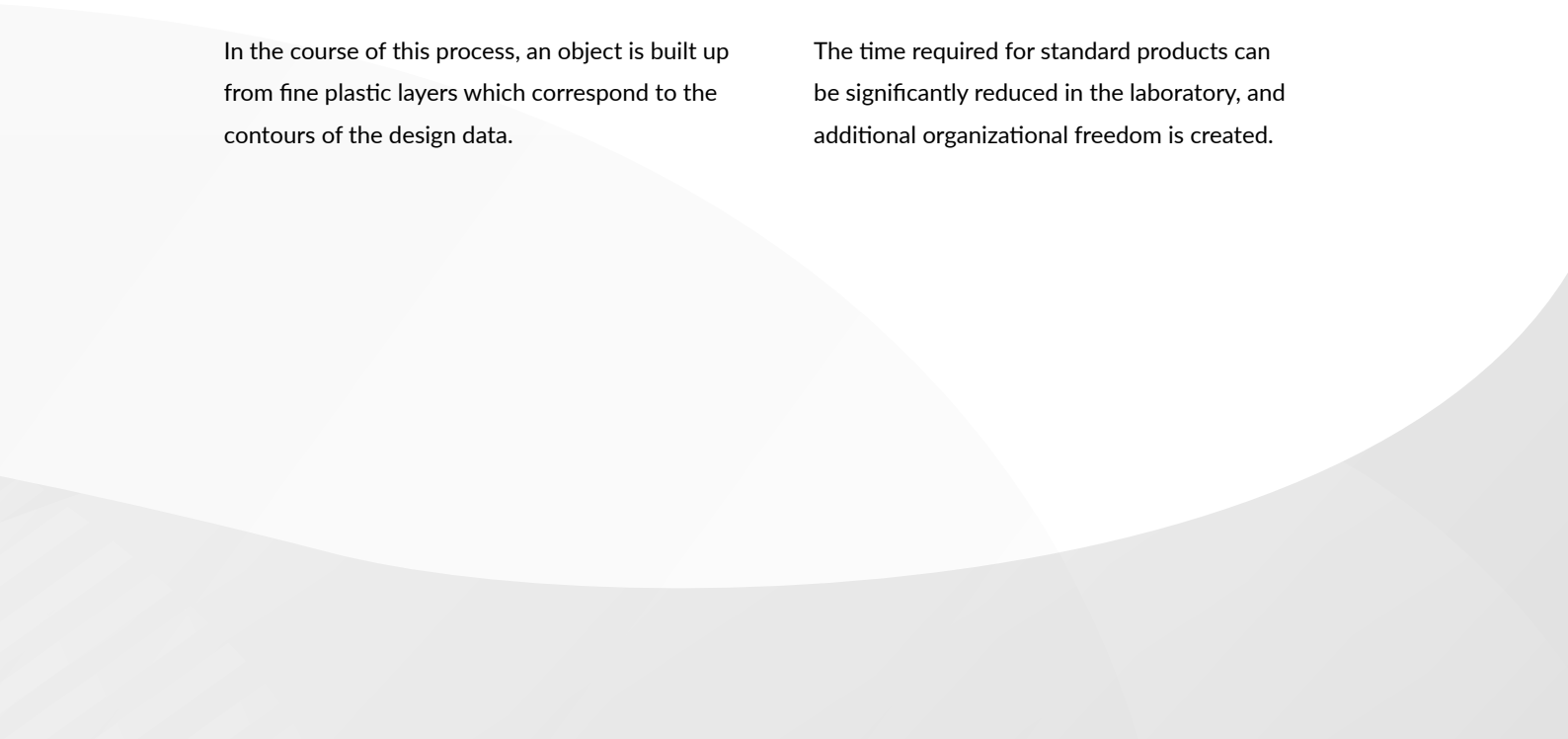
What is 3D-printing?

3D-printing is an additive manufacturing process in which CAD design data are “broken down” by printer software into individual layers (slices) which control the actual printing process.

In the course of this process, an object is built up from fine plastic layers which correspond to the contours of the design data.

3D-printing is an extremely economical manufacturing process, because only the material actually required is used to manufacture an object.

The time required for standard products can be significantly reduced in the laboratory, and additional organizational freedom is created.





3D-PRINTING

Our experience opens up new possibilities for you

With our systems, we implement the most complex designs in 3D-printing. We use both liquid plastic processes (DLP) and plastic melt processes (filament). In addition to the wide variety of materials - including various resins or biodegradable materials - our equipment also enables a wide variety of sizes for numerous fields of application.

This gives you the opportunity to offer interesting products such as surgical drilling templates, impression trays and models.

Our 3D-printing support also laboratories by avoiding high acquisition and operating costs.



THE ADVANTAGES OF 3D-PRINTING

- ✓ EXCELLENT FIT
- ✓ ANY DESIGN CAN BE IMPLEMENTED
- ✓ REPRODUCIBLE AT ANY TIME
- ✓ WIDE RANGE OF PRODUCTS
- ✓ HIGH VARIETY OF MATERIALS
- ✓ ACCESS TO THE LATEST MATERIAL DEVELOPMENTS
- ✓ ENVIRONMENTAL FRIENDLINESS THROUGH OPTIMAL USE OF MATERIALS
- ✓ FAST PRODUCTION AND SHORT DELIVERY TIMES
- ✓ TOP PRICE/PERFORMANCE RATIO



3D-PRINTING



Why CADdent as a partner?

Laboratory managers and owners must always keep an eye on the economic side in addition to the demands on quality and aesthetics. This triad of requirements can be better mastered with the

support of CADdent, because it is usually time-consuming preparatory work that costs time, ties up staff and is modestly remunerated.

1. CADdent helps to reduce fixed costs

Why buy a cow when you just want a glass of milk?
In-house milling or 3D-printing systems mean high investments that have long-term effects as fixed costs for acquisition / depreciation or leasing rates.

There are also maintenance, repair, energy costs and training. CADdent enables the immediate, comprehensive use of the latest technology - to the extent that you need, when you need it.

2. Efficiency and added value increase

CADdent, just as an extended workbench, enables laboratories to concentrate on their real strengths again: creating customized, high-quality prosthetics with their own signature. Work steps which are time-consuming or require personnel that can

hardly be found are outsourced to CADdent. The result: your working time is used more efficiently because it flows into high-quality, appropriately remunerated products.

3. All options are available

Technical developments in connection with the different personal preferences of the practitioners require an ever wider range of available materials. Own production equipment also requires laboratories to keep these - usually expensive - branded

materials available. CADdent is a partner who can always offer this variety in the most current versions, due to high production quantities. A competitive advantage that costs you nothing.



3D-PRINTING

Printed models - the rapid alternative

Making models is one of the most time-consuming processes in a dental laboratory. Printed models therefore mean a time advantage - but not only. The precision also gains when we implement intraoral scans from the practitioner in 3D-printing as a die model or implant model. The alveolar model with its complete gingival course, which is time-consuming to manufacture using analog technology, becomes the daily basis for work here. This new standard achieved through 3D-printing increases the quality of the final restoration while at the same time reducing costs. Our branded materials form the basis for individual products with an excellent fit and reproducible results.



Indications	Dental arch
Plastic resin	✓
Cornstarch	✓





Customized impression trays in stable quality

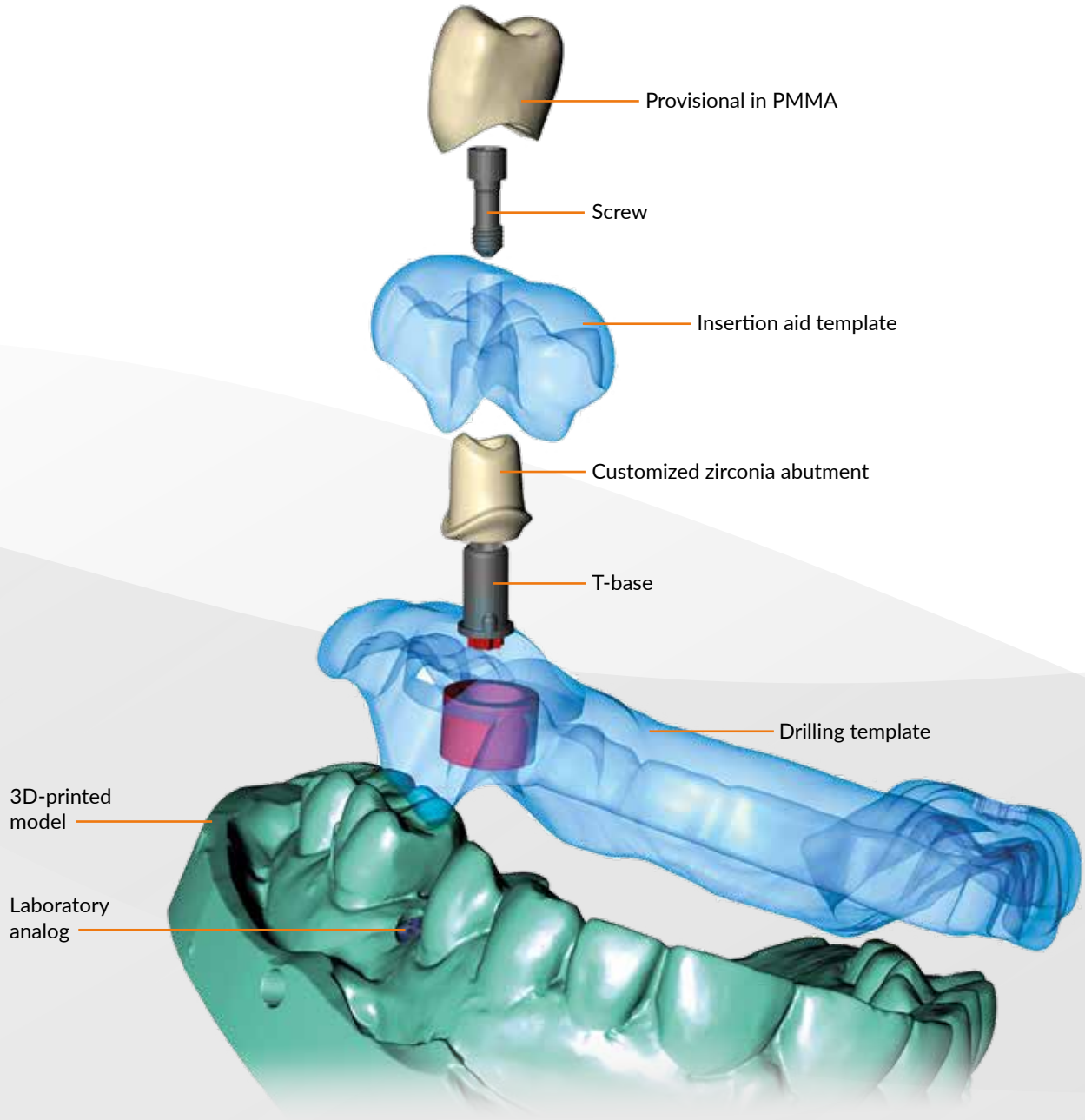
Improvements are also possible with supposedly mature products: our trays in 3D-printing are significantly more stable than conventionally light-curing impression trays. The material layer thickness is even, the product requires significantly less rework in the laboratory.

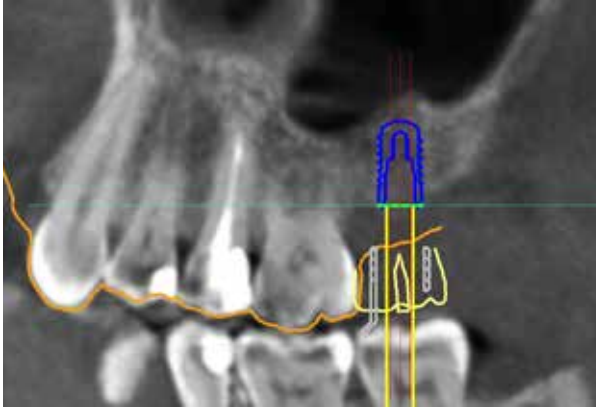
All functional or individual impression trays are characterized by their consistent, standardized quality.

Dental arch implant model	Removable die	Master model	Model for aligner / splints	Impression tray
✓	✓	✓	✓	✓
-	-	✓	✓	-



3D-PRINTING





Drilling template and 3DIP

The computer supported drilling template optimizes the implant supply as a minimally invasive treatment, with maximally aesthetic dentures at the highest level of quality and safety.

Our aim is to give you access to this technology and to competently expand your product portfolio. You choose the form of partnership support yourself.

Tailored to your individual needs, because 3DIP is a special CADdent bundle that we offer in two versions:

- 1 The basic product of implant planning, computer supported drilling template and drilling sleeve.
- 2 As an “all-round carefree package” including a 3D-printed model, laboratory analog, T-base, customized zirconia abutment, insertion aid template, screw and provisional made of PMMA.



Indications	Crown	Inlay / onlay / veneer	Bridge up to 16 units	Primary telescopic	Secondary telescopic
Casting 3D	✓	✓	✓	✓	✓

Casting 3D - Benefit from extended options

With casting, modern technology saves time keeping an artisanal way of working.

If the use of wax is not possible due to particularly sensitive, filigree structures or if milling does not allow certain geometries, 3D casting is the method of choice.

Your desired digital design will be precisely printed by us. We create partial frameworks, crowns, bridges or tertiary structures.

The printed plastic objects can be burned out with almost no residue and are suitable for the production of lost shapes in the casting technique, for your desired alloy or for press ceramics.



Superstructure on implant	Bar	Tertiary structure	Partial framework	Orthodontic appliance	Abutment
✓	✓	✓	✓	✓	✓

i This process is also suitable for the implementation of your self-designed pieces of jewelry.





3D-PRINTING

Service

At CADdent you have a number of extra services that can make your life easier. Our customer care

team will be happy to provide you with details and requirements at any time.

Standby

Time is money: you benefit from an unbeatable low price and give us an additional working day of production time.

Express Service 3D-printing

For urgent orders (with the exception of implant models) which are received after the deadline and should be produced. However, prior telephone consultation is required.





Goodwill insurance with Casting 3D

Insure your work against impression failures and accidents with this all-round carefree package: in the event of damage, we will re-produce the affected structure for you.

Scan / design service

On the basis of the transmitted scan data (intraoral scan or model scan), experienced CAD specialists create your desired design and implement it in the appropriate material.

Repair of files

On request, for example, if the structure is not optimized for production in 3D-printing.



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from technician to technician

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