



ALIGNERS AND 3D PRINTING

“ THE BENEFITS
OF AN ALL-DIGITAL WORKFLOW
TO PATIENTS AND PROFESSIONALS

PRODWAYS
TECH

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“ STATE OF THE ART

CONCERNS AESTHETICS AND TECHNIQUES

Orthodontics, although a common treatment with many pre-adolescents, also concern a good number of adults bothered by esthetic and also sometimes by more technical issues. Properly aligned teeth improve mastication - essential for good digestion - and oral expression - fundamental for social relationships. But they are also easier to care for on a daily basis because they limit the emergence of future problems. However, appearance plays a key role in a person's own experience and quality of life, and straight, even teeth are a necessity for many adult patients who will agree to orthodontic correction if they are offered a technique

that is not visually stigmatizing. This is why it is essential to offer an alternative to metal or ceramic braces placed on the front of teeth, considered too visible for many people. The ortho-lingual technique, where braces are placed on the inside of the dental arch, is invisible but more expensive than the traditional procedure. It can also be inconvenient and requires greater care and attention at mealtimes and when brushing. In other words, it is intended for patients who make the effort to adjust, to take extra care and precautions. An aligner or dental tray is made from clear material and so is invisible; it is worn all the time except at mealtimes

PROPER POSITIONING OF THE TEETH



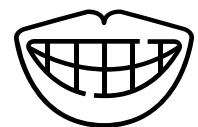
IMPROVED
MASTICATION



IMPROVED
ORAL EXPRESSION



EASE
OF MAINTENANCE



BEAUTIFUL
SMILE

“ STATE OF THE ART

BENEFITS FOR PATIENTS AND PROFESSIONALS

and when brushing your teeth. It is replaced according to how the teeth change during the treatment. This is produced by a digital impression, which is flexible and allows its different stages to be modeled and an additive manufacturing process to be followed by thermoforming. Although an exacting process, this proposition checks a lot of boxes when it comes to patient and practitioner appeal - dentists and orthodontists - as the method provides them with a product free from the criticism often leveled at traditional solutions.

Prodways, a major player in 3D digital orthodontics, places its products, 3D printers and marking station in a comprehensive and certified ecosystem, combining a scanner as chosen by the practitioner, robotized printer, appropriate material, the laser marking system and a thermoforming system inside a consistent, hyper-functional, productive and highly profitable procedure.



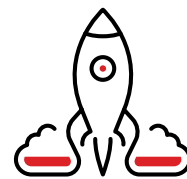
- **Transparent and invisible**
- **Worn permanently except during meals and brushing**
- **Can be replaced as and as treatment evolves**

“ THE BENEFITS OF ALL DIGITAL

AN IMPORTANT ADVANCEMENT FOR PRACTITIONERS, DENTISTS AND ORTHODONTISTS

The interoperability of all digital solutions used during the various stages of manufacturing is necessary to guarantee an optimal result. The additive manufacturing technology to produce on-demand aligners perfectly suited to each individual dentition problem is an undeniable advantage for dentists and orthodontists since it is the first and only one able to carry out this task in a totally reliable method. One of the first advantages seen is the speed of the whole process, from a totally digital impression to patients being fitted with mouth trays that are perfectly adapted to their jaw, thus avoiding lengthy sessions in the dentist's or orthodontist's chair. With resources such as these, he or she has reliable and efficient tools at hand to create top quality pieces with high-precision fitting.

The reduction in production times and speed of implementation ultimately translates into greater patient satisfaction who benefit from increased comfort and gain more control of their budget. As a result, the practitioner also benefits not only in terms of customer relations, but also through a modern and well-controlled practice, a simpler workflow requiring less manpower, and a guaranteed increase in profitability.



REDUCTION OF TIME
OF PRODUCTION



HIGH QUALITY AND PRECISION



INCREASE
CUSTOMER SATISFACTION

“ THE BENEFITS OF ALL DIGITAL

BENEFITS FOR PATIENTS AND PROFESSIONALS

As for laboratories, the use of highly automated machines operating with a consistent and integrated process produces significant economies of scale and responses that are adapted to market needs, including requests that are more esthetic than medical. **It is also a real growth driver, enabling the company to expand in a profitable and fast-growing market.** With 3D printing, technicians are becoming more skilled and versatile, but this does not rule out the option to combine digital performance with the craftsmanship of traditional methods used for finishing dental appliances. As soon as it becomes a part of an integrated and controlled production chain - a key principle at Prodways - the additive manufacturing of aligner preforms becomes a major asset for the development of the professions operating in the sphere of orthodontics.

For laboratories, mastering 3D printing is also a formidable means of growth with an investment that quickly pays for itself.

PATIENT SIDE

- ✓ CUSTOMER SATISFACTION
- ✓ COMFORT
- ✓ BUDGET CONTROL



PROFESSIONAL SIDE

- ✓ VERSATILITY
- ✓ ADDITIONAL COMPETENCIES
- ✓ PROFITABILITY



THANK YOU

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