MEMORYALIGNER

## **Powered by Graphy**



Manufactured in Scotland

# Not like any other aligner.

MEMORYALIGNER is the first clear aligner brand in the UK with Shape Memory, invented by Graphy

## The only aligner that can be cleaned in boiling water.

More Hygienic



### www.shapememoryaligners.co.uk



Customer Service Rep: Dr Samin Derakhshin E: <u>info@al-mahdi-dental-supplies.com</u> Phone/<u>WhatsApp</u> (UK): +447770447965

Lab Address: Holyrood Dental Care, 85 Holyrood Rd, Edinburgh, EH8 8AU. Scotland, UK E: <u>info@holyroddentalcare.co.uk</u> Phone (UK landline): +44(0)1315570202

### Would you like to offer the latest clear aligner technology to your patients?

We are the first suppliers of Direct Printed Aligners (DPA) in the UK! The world's first shape memory aligner by Graphy. Endorsed by internationally renowned orthodontists.

For a summary of this global success - over 100,000 cases completed worldwide - please continue reading.

Some of the advantages over thermoforming aligners are:

- Few or no attachments.
- Less chairside time and fewer emergencies.
- Variable aligner thickness.
- More comfortable for the patient.
- More environmentally friendly: no printed models & less plastic waste.
- More hygienic.

# 3D printed without plastic models.

More Eco-Friendly



# World's 1<sup>st</sup> Direct Printed Aligner Shape Memory Aligner

World's first patented technology Shape Memory



Direct Aligner Cleared FDA 510(k) for the first time in the world, also certified KFDA Class II, CE Class II, GMP, ISO13485



# **Direct Aligner Speakers** Around the World



Prof. Ravindra Nanda Professor Emeritus Department of Orthodontics University of Connecticut Adjunct Professor The Forsyth Institute Editor-in-Chief Progress in Orthodontics

"What made the big difference in orthodontics especially with the wires and bracket was when we introduce shape memory wires, wires which change their characteristic with the heat as well as when you're going to put up in the mouth then force is going to remain pretty stable over a long period of time. And this is what now Graphy aligner material is going to do."



#### Ki Beom Kim, DDS, MSD, PhD

Dr. Lysle Johnston Endowed Chair in Orthodontics Professor and Program Director Department of Orthodontics Center for Advanced Dental Education Saint Louis University "I think the Graphy material is an innovative material that can fundamentally overcome the disadvantages and limitations of existing thermoplastic materials, as well as the simplicity of device manufacturing.



#### Dr. Werner Schupp

Dr. Björn Ludwig

Editor in Chief "Journal of Aligner Orthodontics" Quintessence Publishing Editor for "Manuelle Medizin und Kieferorthopädie" (Springer Verlag) Advisory Board "Kieferorthopädie" Quintessenz Verlag

"Advantages of 3D aligner printing: TC-85DAC is more flexible and has a larger elastic range. Perfect fit to tooth, almost no gap"



#### Dr. Kenji Ojima D.D.S.M.D.Sc

Invisalign faculty Adjunct Professor University of Torino President of Japan Academy of Aligner Orthodontics

This material is a very new future, There's a better way for new generation aligners on orthodontics."



Assistant Professor at the University of Homburg/Saar, Department of Orthodontics Editor in chief of the Quintessenz publication "Kieferorthopädie" Co-editor of the Journal of clinical Orthodontics

"I had to print out the aligners the same day, and it worked, because I can print it out in my office. It gives me control, it gives me the power.



Dr. Yong-Min Jo

Since 2020 Shareholder and Chief Business Development & Innovation Office at Scheu Group: Scheu Dental, CA Digital, Smile Dental Companies "The innovative advantage of the new aligner material is the continuous power transmission thanks to its memory effect. Due to this effect, the aligner permanently returns to its original shape, which has a positive effect on the power transmission and rigidity of the aligner."



Dr. Simon Graf Smile AG Inventor and pioneer in CAD/CAM procedures for metal and acrylic 3D printed orthodontic appliances

The two ways of aligners! Now direct printed instead of vacuumforming."



Dr. Choon Gwack DDS MSD Ph.D.

Vice-President of Busan, Gyeongnam, Ulsan Branch in KAO Vice-President of KSDO Principal Dentist of Bareuni Orthodontics and Dentistry Clinic "Direct aligners made of shape memory polymers have the advantage of having appropriate elasticity at the temperature in the oral cavity and being soft at high temperatures, so they can be easily weared without blockout. Thanks to this, excellent and predictable tooth movement can be obtained with minimal attachments."



Dr. Nearchos C. Panayi Scientific coll. European University Cyprus Visiting Research Scientist, Clinic of Orthodontics, University of Zurich. Author "Design It Yourself Orthodontics" book, Quintessence Associate Editor "Progress in Orthodontics" Preliminary results show excellent mechanical properties. It is clear to see that aligner printing is here to stay. The river cannot reverse.

Nevertheless, in order to have a consistence and excellent result, Graphy has created a protocol which needs to be followed beginning from the appropriate aligner design, printing, and most important, UV curing."

Research collaborations with Universities of Bonn, Cologne and Mainz

providing resin and machinery for the workflow of direct printing of

Graphy is not only the leading company but the only company worldwide,







Dr. Jörg Schwarze

Aligner Orthodontics (DGAO)

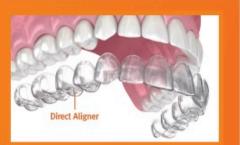
General Secretary of the German Society for

Associate Professor University of Ferrara

Founder of the Aligner Academy and Dentle Smile

A committee member of the international affair in KAO

"Graphy's TC-85DAC, which shows the performance of the world's first direct printing shape memory aligner, is a device material that allows me to express my creativity in a wide range of weak to strong strength that I have been waiting for so long. It can be used together with the existing MTA, so it is highly recommended for aligner treatment of tooth movement where root control is actively needed due to its affinity with conventional mechanics."



### **Direct printing enables strategic** thickness adjustment for corrective treatment



Easy brushing

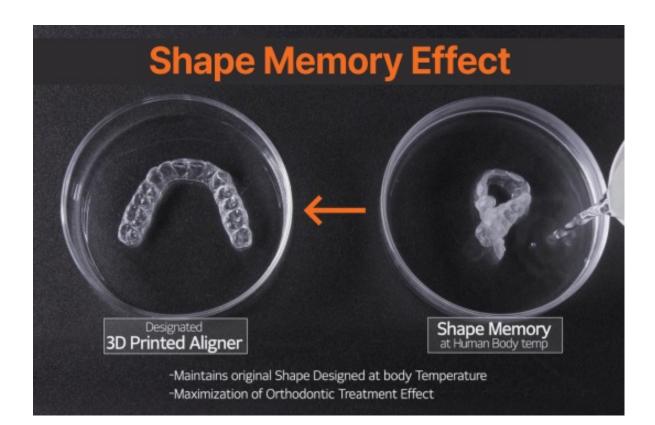
Healthy teeth, gum odor and deodorizing effects

Minimize dental damage

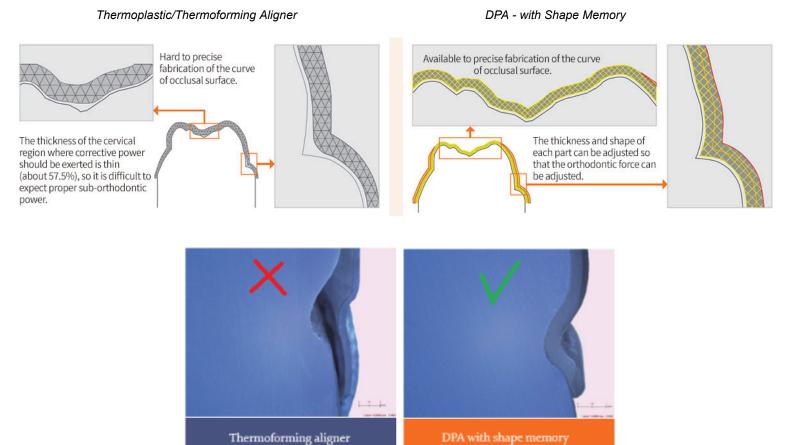
Less stress on the jaw joint

### Minimize inconvenience when wearing or removing, and allow hygienic management through heat disinfection

Block-out can be minimized for wearing and removing inside of the mouth, improving correction and minimizing patient inconvenience. Direct Aligner can be put in hot water for heat disinfection, so you can keep it clean at all times. Also, it is a human-friendly material.



### **Comparing DPA With Thermoforming Aligners**

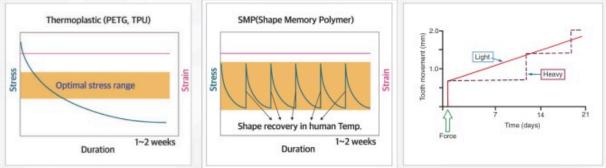


DPA with shape memory

#### Thermoforming aligner

Ununiform and stretched aligner due to the thermoforming method. Gap formed between the aligner and the tooth surface due to block out.





Aligners made from conventional thermoplastic sheets have heavy initial force, which overstrains the teeth (causing pain), then rapidly decreases to less than the appropriate force, and as a result, cannot maintain orthodontic force, making it difficult to obtain the intended orthodontic result.

Direct Aligner induces 'Light & Continuous force'.

Light & Continuous force induces smooth and continuous tooth movement while activating cells.

> Ref : Contemporary Orthodontics. William R. Proffit et al. 6 edition p.263-266



### Advantages over Traditional (Thermoforming) Aligners

- More comfortable Shape Memory technology allows patients to soften their aligners in warm water before insertion, making them easier to wear. The aligner then regains its precise fit at mouth temperature, ensuring a perfect adaptation every time. The same method can be used for effortless removal just rinse with warm water!
- **3D Direct printing** Eliminates the need for printing dental models. Since thermoforming, cutting and finishing is not required, there is almost no manufacturing error occurring during the manufacturing process.
- **More hygienic** Unlike traditional aligners, it is the only aligner that can be cleaned in boiling water, providing superior hygiene.
- **More eco-friendly** Designed with sustainability in mind, MEMORYALIGNER eliminates unnecessary plastic waste, making it an environmentally conscious choice for your practice.
- Variable aligner thickness Unlike any other aligner system, MEMORYALIGNER enables the orthodontist to adjust the form and thickness on the aligners for each tooth surface in order to create the optimal orthodontic force.
- Less attachments Thanks to the shape memory effect, the aligners can be designed to cover undercuts on the teeth surfaces. Thereby requiring less (or no) attachments.
- **Continuous force** MEMORYALIGNER applies continuous mild force on the teeth. Other aligner systems apply heavy initial force which can overstrain the teeth (cause pain), then rapidly decreases to less than appropriate force.

"You can say now that's the future... I tell you it's already here"

66

Dr. Simon Graf (Orthodontist

## **MEMORYALIGNER**

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# **OUR TREATMENT PACKAGES**

All our orthodontic treatment planning is designed by Graphy certified specialist orthodontists.

Digital Setup/Treatment Planning: £150

1. Simple Case: £590 (No refinement fees)

Up to 10 aligners per arch

2. Moderate Case: £1090 (No refinement fees)

Up to 25 aligners per arch

3. Advanced Case: £1500 (No refinement fees)

More than 25 aligners per arch

(Or less than 25 aligners but still classified as "Advanced" due to its complexity)

## 50% Discount On the First Order!

**Free UK & International Delivery** 

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