

Trefoil™ the next full-arch revolution

A revolutionary fixed solution to treat more patients better.

Nobel Biocare has led innovation in full-arch solutions for over 50 years. The latest addition to the company's already extensive assortment of innovations for full-arch rehabilitation is the perfect example of this approach in action.

By Mike Stuart

The Trefoil system is a breakthrough in efficiency for treating the mandible. Previously, pre-manufactured bars could be cost efficient, but passive fit posed a challenge. Now, Trefoil has overcome this with a unique fixation mechanism, which can adjust to compensate for inherent deviations from the ideal implant position. This feat of engineering has enabled a new fixed solution that makes it possible for clinicians to offer patients fixed and definitive teeth in one day.*

More patients benefit from a fixed solution

Several studies confirm implant-assisted complete prostheses are more advantageous than conventional dentures.¹ The benefits of fixed solutions can outweigh the cost of a fixed-removable for many patients when considering implant-supported solutions. As an elective surgery, clinicians must take into account many patient preferences and circumstances. Developed with the needs of the many in mind, the efficiency of the Trefoil system empowers clinicians to provide many patients who are held back by time or by finances with the premium-quality, fixed solution they deserve.

Even before launch, the patient benefits of the Trefoil system have been experienced. A global, five-year multi-center study using the solution began in 2015 and has already yielded positive results.² The hope is that, with the Trefoil system now widely available, patients around the world will soon experience changes in their life quality that this innovative new solution was designed to deliver.

*Depending on clinician preference and close cooperation with the laboratory.

Booth D3 and Hospitality suite H2. Visit us to experience the new system

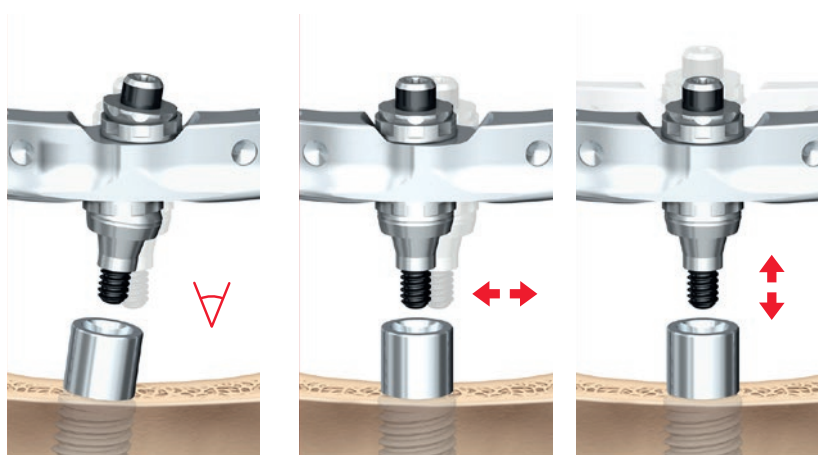
Leading in immediate solutions

By challenging existing treatment methods we aim to drive efficiency and make high-quality treatment a viable choice for more patients.

THE FIRST PRE-MANUFACTURED BAR WITH PASSIVE FIT

The ingenious fixation mechanism is a breakthrough in treating the edentulous mandible.

Anatomically designed for the natural arch of the lower jaw, the standardized bar contains adaptive joints that adjust to compensate for horizontal, vertical and angular deviations from the ideal implant position.



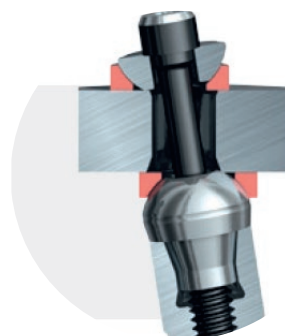
Angular deviation
±4.0°

Horizontal deviation
±0.4 mm

Vertical deviation
±0.5 mm

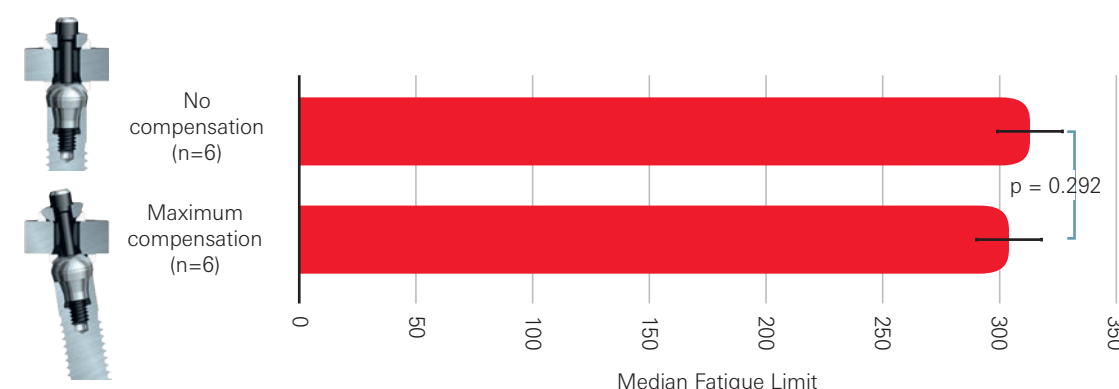
PATENT PENDING FOR FIXATION MECHANISM

Each mechanism has five self-adjusting joints that help correct the position of the pre-manufactured bar, enabling the passive fit of the definitive prosthesis.



PROVEN STRENGTH WHEN PUSHED TO THE LIMIT

The Trefoil system maintains its strength when pushed to the extreme of its compensation capability. In fact, tests³ prove almost no difference in fatigue limit between the maximum compensation configuration and the configuration without compensation.



FIND OUT MORE

Discover the detail behind this revolutionary full-arch solution:
nobelbiocare.com/trefoil

PATENT PENDING for fixation mechanism

DEFINITIVE TEETH IN ONE DAY*

The Trefoil system is a cost-efficient solution that allows Immediate Function and makes fixed and definitive teeth on the day of implant surgery* an option for more patients.

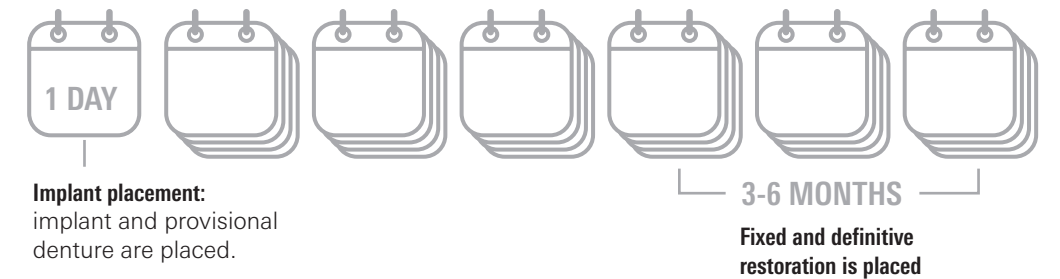
Shorter time-to-teeth:

The Trefoil system enables a fixed and definitive prosthesis to be placed up to six months earlier than conventional treatments with provisional prosthetics.



Implant placement and fixed definitive restoration in one visit*.

Conventional treatment



*Depending on clinician preference and close cooperation with the laboratory.

STRAIGHTFORWARD PROSTHETIC WORKFLOW

Substantial time savings for the restorative clinician and the lab.

The restorative workflow is simplified thanks to the use of the pre-manufactured bar. An experienced clinician and lab will require approximately six hours of active working time to do the treatment.**



**The comparison above demonstrates possible treatment methods with approximate treatment times.

ALREADY BACKED BY CLINICAL RESEARCH²

The Trefoil system is the focus of an ongoing five-year, multi-center study², taking place across four continents, that began in 2015. Positive results are already being reported for implant and prosthetic survival rates.

5 YEARS

4 CONTINENTS

110 PATIENTS



Dr. Kenji Higuchi, United States



Dr. Rubén Rosenberg, Chile



Dr. Rubén Davó, Spain



Prof. Dr. Massimo Albanese, Italy



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1. Emami E et al. Implant-assisted complete prostheses. Periodontol 2000. 2014 Oct;66(1):119-31. doi: 10.1111/prd.12041.
2. Clinicaltrials.gov. The TREFOIL concept 5-year clinical investigation (NCT02940353). <https://clinicaltrials.gov/ct2/show/NCT02940353>. Accessed June 22, 2017.
3. Carretta R, Geisendorf M, Spinnler A, Heuberger P, Higuchi KV, Brunski JB. A Novel Prefabricated. Final Fixed Solution for the Edentulous Mandible. J Dent Res 96(Spec Iss A):3348, 2017 (www.iadr.org).