The Most Advanced Fully Digital All-on-X Solution

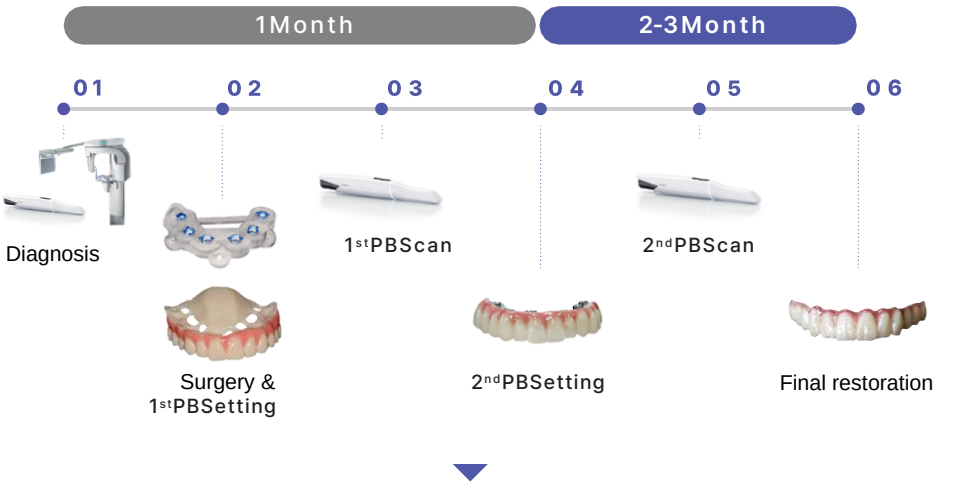
DIO NAVI Full Arch

Full Arch
D:O NAVI

DIO NAVI Full Arch

DIO NAVI Full Arch is currently used in dental clinics across **14 countries**.
With over **14,000 arch cases** of patient treatment experience, the system has been continuously improved to provide the **best solution for edentulous patients**.
By utilizing the **precise and safe DIO NAVI surgical guide**, implants are placed and a **fixed 1st provisional bridge** is delivered on the same day, maximizing patient satisfaction.
The prosthetic workflow, unique to DIO NAVI Full Arch, involves **scanning the first fixed provisional bridge** to fabricate the second one, achieving high accuracy even with changes in the oral environment during treatment.
This same workflow is applied to the **final prosthesis**, which is screw-retained and made from highly aesthetic and stable **zirconia material**.

DIO NAVI Full Arch Workflow



Treatment completed in **6 total visits** after initial consultation

Clinical Case

Clinical Case

Before

After

(*Provided by: Newton Dental Hospital*)

Key Features of DIO NAVI Full Arch

01 Precise pre-surgical planning & implant placement

- On average, 6 implants per arch

02 Immediate loading of fixed provisional bridge upon implant surgery

- 1st and 2nd Provisional Bridges provided

(DIO)NAVI Full Arch

03 Final prosthesis fabricated by scanning outside the oral cavity

- Ensures high precision

04 Short treatment duration (2~4 months)

05 Various patient-specific final prostheses available

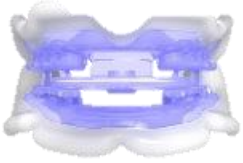
- Provides accurate and stable screw-retained prostheses.

D:O Full Arch NAVI Work Flow (Digital Process)

6 days later | 7 days later | 7 days later

Diagnostic Data Collection ➤ **Surgery& 1stPB Setting** ➤ **1stPB Scan** ➤

*DIONAVIGuide



*DIOJBTray

*1stProvisionalBridge

*Denture

Assessment of patient's condition (fully edentulous, partially edentulous, etc.) ➤ Implant placement using DIOnavi and surgical guide Immediate 1st PB setting after implant placement ➤ Connect scan-body and scan jig. Perform scanning and vertical dimension recording ➤

Performed 30–60 days after scan 10 days later

2ndPB Setting ➤ **2ndPB Scan** ➤ **Final restoration**

*2ndProvisionalBridge

*NightGuard

FullZirconia

*Standard

Torx Screw & Driver

Archframe+Zirconia

*Option

Hex Screw & Driver

Performed 30~60 days after scan. Night guard provided as standard. ➤ After 7 days of 1st P.B usage. Connect scan-body and scan jig. Perform scanning and V.D recording

Full Arch NAVI Work Flow(Conventional Process)

Surgery
(Non-Guide)

7 days later

Intraoral scan

Measure cuff height using MUA gauge & Connect Multiunit Abutment

Take intraoral scan using Multiunit Abutment-specific scan body

Scan

Scan the relined denture

Measure cuff height using MUA gauge & Connect Multiunit Abutment

Take intraoral scan using Multiunit Abutment-specific scan body

Reline inside of existing denture and scan the relined denture

Performed 30–60 days after scan

10 days later

2ndPB Setting → **2ndPB Scan** → **Final restoration**

*2ndProvisionalBridge

*NightGuard

FullZirconia

*Standard

Torx Screw & Driver

Archframe+Zirconia

*Option

Hex Screw & Driver

Full Arch Prosthetic Workflow & Equipment

DIO possesses core source technologies that ensure the **precision and stability** essential to the success of provisional and final prostheses in the Full Arch restoration regardless of whether it's a model-less process or conventional All-on-X.

Provisional

*3DPrinting

1stProvisionalBridge

2ndProvisionalBridge

Final

FullZirconia

▶ **Provisional Bridges (1st and 2nd)**
Fabricated using **DIO's proprietary resin materials** via **3D printing**
Designed to simplify the reproduction of intermaxillary relationships before final prosthesis fabrication
▶ **Final Prosthesis**
Manufactured using **Ivoclar PM7**, a highly precise milling machine
Final restorations are customized according to patient needs:
Sprint type / 1–3 unit designs

Restoration

*Milling

Final Restoration

Titanium Frame+Zirconia

Full Arch Prosthesis – Provisional Stage

1st Provisional Bridge

▶Resin-based provisional restoration fixed with screws on Multiunit Abutments **on the day of implant surgery**
▶Enables **immediate loading**
▶Functions as a **digital impression tool** for accurate oral replication

2nd Provisional Bridge

▶ Made from **reinforced resin**
▶ Improves upon the 1st PB's representation of oral conditions
▶ Worn for **1~3 months** prior to final prosthesis
▶ Allows patient to **adapt stably** to final restoration

Full Arch Prosthesis – Final Stage

Full Zirconia

▶ Fabricated from **premium zirconia blocks** with:
Strength: **1,250 Mpa** / Translucency: **48%**

▶ Milled using the **Ivoclar PM7** system for ultra-precise results

▶ **Directly screw-retained** to Multiunit Abutments using dedicated **Torx screws – No cement or links required**

▶ Customizable based on:
Vertical Dimension, Aesthetic needs, Gum or Gum-less types, 1~3 unit bridges

Titanium Frame Zirconia

▶ Commonly used in general All-on-X cases
▶ Uses the same zirconia and titanium as the Full Zirconia type
▶ Recommended when a **reinforced final prosthesis** is needed due to:
▶ Number of implants
▶ Arch shape
▶ Cantilever length

3-unit & Partial Restorations

3unit & Partial

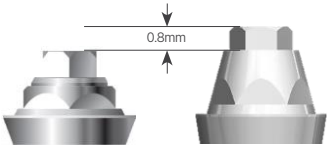
▶ **2–3 unit final prostheses** can be fabricated based on:
Patient's age, Preferences, Treatment plan
▶ Generally fabricated as **Gum-less type**
▶ Tailored solutions for a wide range of partial cases

▶ For patients with **partially edentulous** arches (4–11 missing teeth)
▶ Available in **Gum** and **Gum-less** types

Advantages of DIO Multiunit Abutments

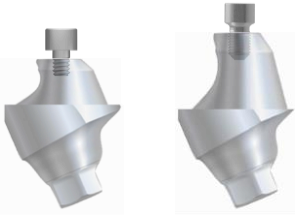
01 High Structural Stability & Convenience

▶ **Enhanced Mechanical Stability**
- Dedicated **round-type screws** designed for stress distribution
- Increased **post height** and **screw length** prevent:
  Screw loosening, Screw fractures



Others | **DIO Multiunit Abutment**

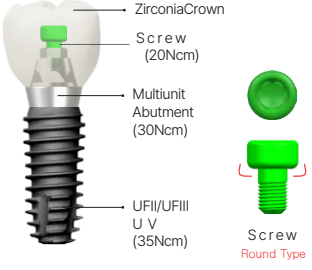
Multiunit Straight Abutment



Others | **DIO Multiunit Abutment**

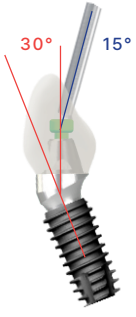
Multiunit Angled Abutment

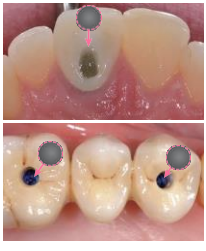
02 Cement-less Direct Crown



▶ **Cement-less Direct Crown Connection**
- Zirconia prosthesis is **directly connected** to Multiunit Abutments
- Eliminates all issues related to **cement use**

▶ **Aesthetic Screw Access through Angle Compensation**
- Allows creation of screw holes in **desired locations**
- Supports up to **45° angle compensation**
- Enables ideal **esthetic placement**





▶ Angle compensation concerns are overcome with:
- Precise angulation of posts
- Accurate implant placement using DIOnavi Guide

Components

Diagnosis

[Metal Artifact Case]
[Partial Edentulous Case]

Markeror
Flowresin

Curing light)

[Edentulous Case]

JBTrayor
WaxDenture

Adhesive

Impression
material

+Marker

[Edentulous Case]

JBTrayor
WaxDenture

Adhesive

Impression
material

+Marker

Surgery

MasterSKIT

SpecialKIT

Surgical Guide

Fixture

1stPB

1stProvisional
Bridge

Multiunit
Abutment

Conical Driver
/1.2HexDriver

TorqueWrench
(DTW0060)

TemporaryCylinder
/CylinderScrew
(StraightBody)

RubberDam

Flowresin

Multiunit Abutment
Holder

Cylinder
Protector

Curing light)

Bur

2ndPB


2ndProvisional Bridge


TemporaryCylinder /CylinderScrew (StraightBody)


Resin cement


Teflonor CottonPallet


MicroBrush


Curing light


Bur

Final Restoration

[Archframe+Zirconia]


(Archframe+Zirconia)


1.2HexScrew (MSC1604)


1.2HexDriver


TorqueWrench (DTW0030)

[Full Zirconia]


(FullZirconia)


1.7TorxScrew (MDSC1604T)


1.7TorxDriver


TorqueWrench (DTW0060)

Scan


Adhesive


Impression material


Scanbody (MCSB4804_10)


Multi ScanJig


Flowresin


Curing light

D:O IMPLANT