



32 DENTAL SOLUTIONS™

32 DS TRUE DIGITAL 3D GUIDED DENTAL IMPLANTS



1st
AND ONLY CENTRE OF
NORTH INDIA TO HAVE ALL

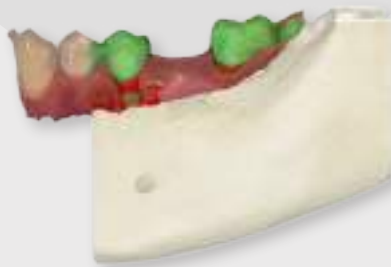
CBCT, INTRAORAL SCANNER, IMPLANT STUDIO SOFTWARE AND 3D PRINTER UNDER ONE ROOF
TO PROVIDE OUR IMPLANT PATIENTS A FLAWLESS DIGITAL GUIDED IMPLANT WORKFLOW



What are Digital 3D Guided Dental Implants

As the Name Suggests, It's A Digital Way of Implant Planning And Implant Surgery Implementation According To The Planning. These Are Prosthetic Driven Implants. Rather than placing implant directly in patient's mouth, we place the implants in virtual 3D jaw of the patients reconstructed digitally by us using our software with the help of fusion of patient's **INTRAORAL SCAN** and patient's **CBCT SCAN**.

In This Method, Patient's Computerized Virtual Model Is Created with Both Hard Tissues (Bone/Teeth) And Soft Tissue (Gingiva) And Implant Is Placed In the virtual jaw. The Virtual Model Created Is Extremely Accurate Up to 4 Micron Accuracy And A Digital Guide Is Fabricated

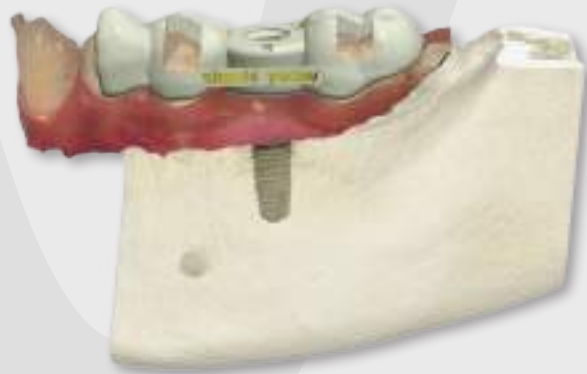


Patients specific computerized 3D model of jaw is created



Fabrication of the virtual guide on the 3D model

A Virtual Guide Is Than 3D Printed, Which Is Then Used To Place The Implants In The INTRAORAL Site In Exact Correct Position Extremely Safely And Painlessly Which Was Digitally Planned.

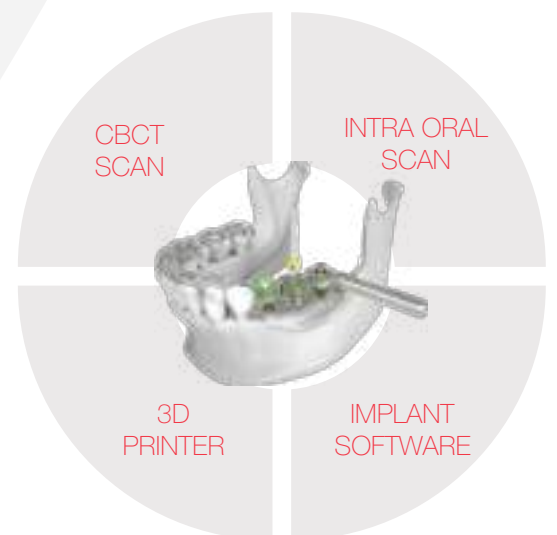


Implant placement through the guide hole



Requirements Digital 3D Guided Dental Implants

- CBCT SCAN
- INTRA ORAL SCAN
- IMPLANT STUDIO SOFTWARE
- 3D PRINTER



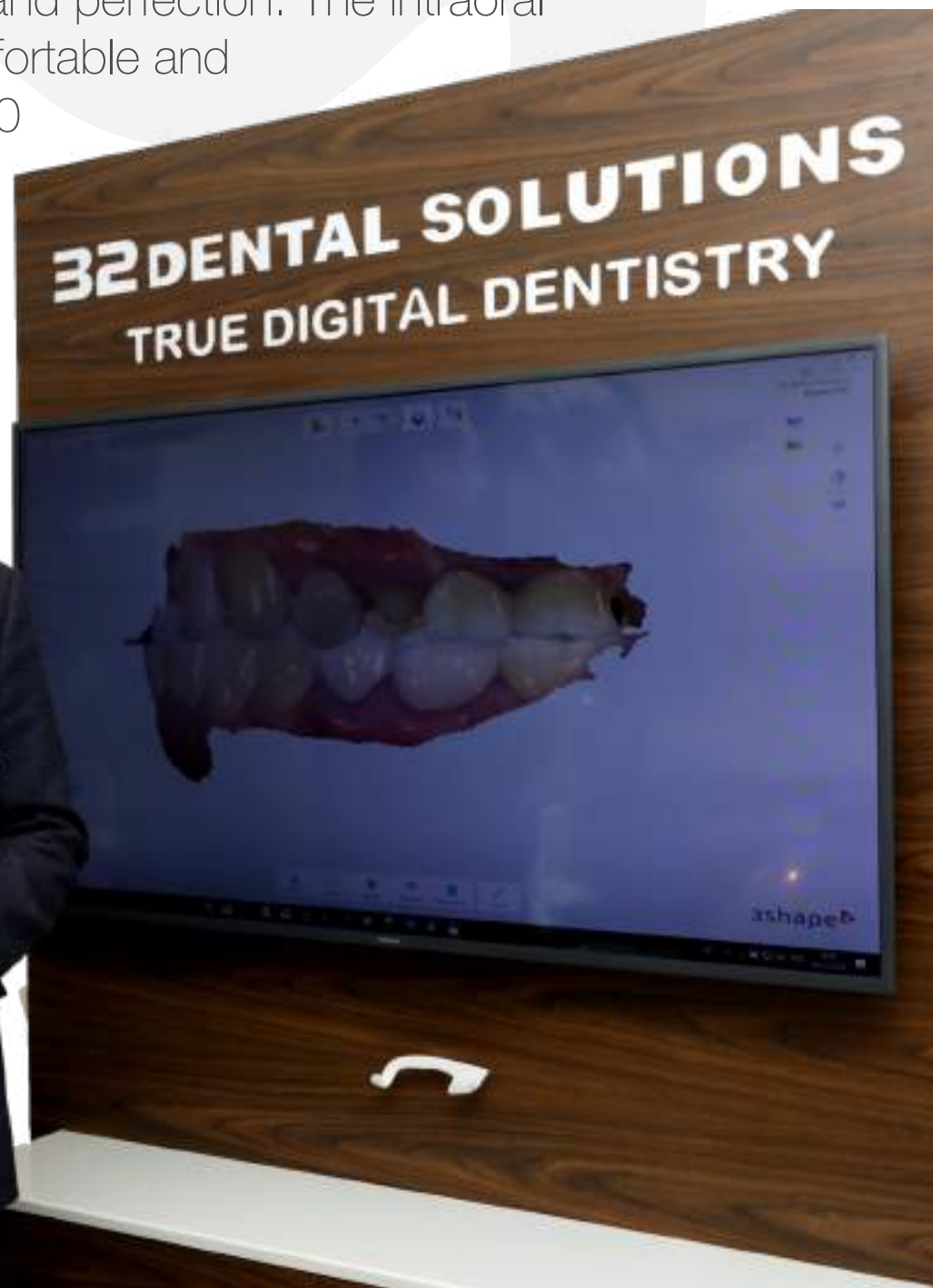


Why 32 Dental Solutions for your
Digital 3D Guided Dental Implants

IN-HOUSE INTRAORAL SCANNING

We have state of the art top of the line : **3 SHAPE TRIOS** 
3 WIRELESS COLOURED INTRAORAL SCANNER

which is used to record intraoral details precisely upto 4 microns with ease and perfection. The intraoral scanning is very comfortable and fast, would take 50-60 seconds per arch.





Why 32 Dental Solutions for your
Digital 3D Guided Dental Implants

IN-HOUSE CBCT

We have fully digital: **RAYSCAN ALPHA PLUS CBCT**, a **Samsung Subsidiary** here at 32 Dental Solutions, providing our patients with best diagnostic and dental imaging services with most accurate image and comfortable experience.



RAYSCAN **α+**

World Class CBCT
Dental CT Scan

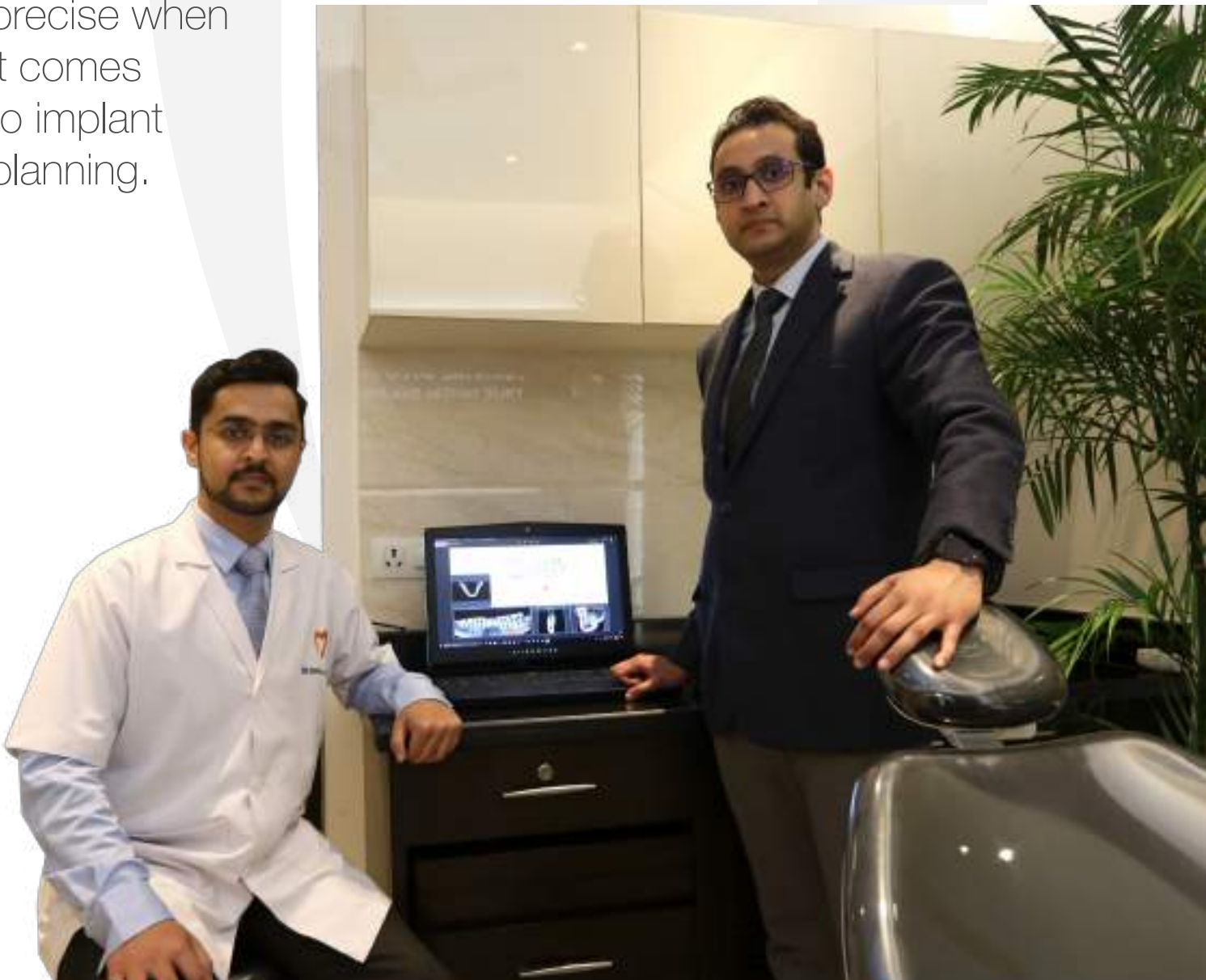




Why 32 Dental Solutions for your
Digital 3D Guided Dental Implants

IN-HOUSE 3 SHAPE IMPLANT STUDIO

We have **3SHAPE IMPLANT STUDIO** software, a dedicated software for in-house digital implant planning for our patients. It is the best and most renowned implant software available till date, extremely accurate and precise when it comes to implant planning.





IN-HOUSE 3D PRINTING

We have the best 3D Printer of the world: **FABPRO 1000 BY 3D SYSTEMS** for 3D printing of the surgical guides of our patients and we use **SG (Surgical - Guide) Resin** for it, which is the only FDA approved material to be used intraorally for surgical guide. What our patients get is most precise and comfortably fitting guides with no discrepancy, resulting in best implant positioning using it.

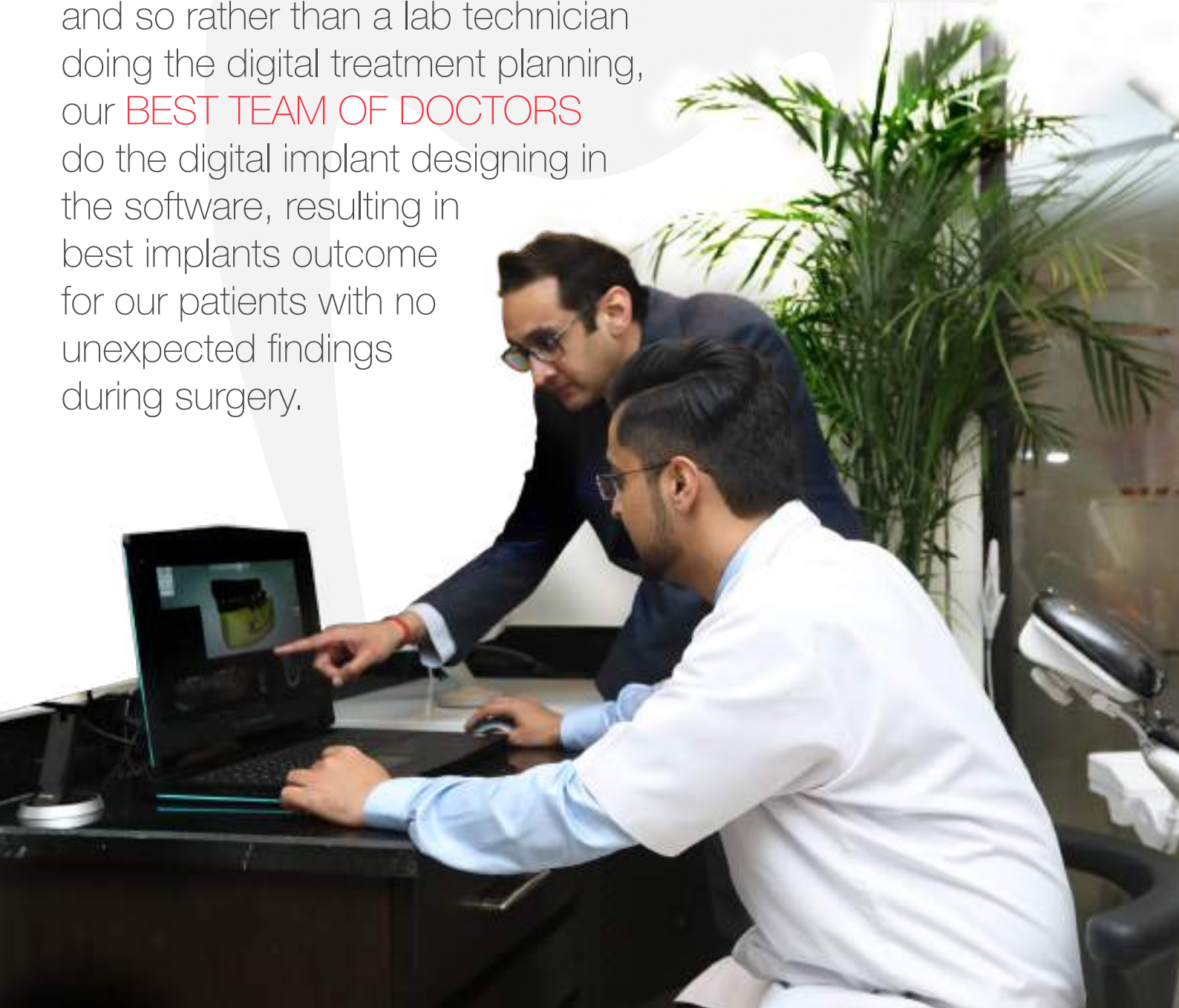




Why 32 Dental Solutions for your
Digital 3D Guided Dental Implants

DIGITAL IMPLANT PLANNING DONE BY THE DOCTORS AND NOT BY TECHNICIANS

We believe in best treatment outcome and so rather than a lab technician doing the digital treatment planning, our **BEST TEAM OF DOCTORS** do the digital implant designing in the software, resulting in best implants outcome for our patients with no unexpected findings during surgery.





OSSTELL ISQ APPARATUS TO KNOW THE LEVEL OF OSTEOINTEGRATION

It is very important to know when to load the implant with the crown or other prosthetic components and correct timing is important, which is always questionable as it differs from one patient to another and case to case.

In order to make sure, we have in house **OSSTELL ISQ DEVICE**, which let us know the level of osteointegration of the implant with the bone giving a reading from 1-100, more the reading more the integration and less chances of implant failure due to early loading. In other words, it tells us when to place a crown safely on to your implants.



OSSTELL ISQ DEVICE: To Know when your Implant is Ready to Receive the Crown.





Why 32 Dental Solutions for your
Digital 3D Guided Dental Implants

BEST OPTIONS FOR DENTAL IMPLANTS

Regardless of the technique, the choice of implant brand is also extremely important and we are proud to provide with the top of the line dental implants available:



DIONAVI.
Digital Navigation Implant

 **straumann**



We Do Not Use Indian, Chinese or Israelian Implants and
Say Big No To Them.





WE USE BEST BONE GRAFTING MATERIALS FOR YOUR DENTAL IMPLANTS

A bone graft material is a substitute of bone for bone remodelling and formation on site where the bone level is compromised and we require to grow the bone for better implant stability and better faster healing. There are plenty of materials in market for performing this task, but results vary from one material to other. We have been very selective in choosing the right material for you as the success rate of the graft largely depend on the type of bone graft used. Here at 32 Dental Solutions, we use the top of the line grafting material, which has its own benchmark -

Rocky Mountain Bone Grafts



It is an allograft, taken from same species/humans which has got the highest success rate amongst all the grafts. Rocky mountain is one of the best graft material available and has set its own benchmark in the field of grafts industry.

Novabone Putty Bone Grafts



it is an synthetic bone graft, with NovaBone Dental Putty is a new, next generation Calcium-Phosphosilicate bone graft material based on NovaBone's bioengineered technology platform that offers superior healing and environment for excellent bone formation.





IN-HOUSE PRF (GROWTH FACTORS) SEPARATING CENTRIFUGAL MACHINE

Platelet Rich Fibrin Production Centrifugal Machine which is Used to Separate the Growth Factor From Patient's Blood and is Used to Mix with the Graft for Excellent Treatment Outcome. It Creates Excellent Healing Environment on the Implanted Site. It is also Used to Make Membrane for Graft Protection Against Dislodgement During Early Healing. It is the Best Solution Used for Implant Placement, as we Derive Growth Factors from Patients Own Blood.





TRUE DIGITAL IMPLANTS PROSTHETIC PHASE

Providing crowns over the implants in conventional way is a very cumbersome and really difficult procedure for both dentist and the patient. Also it is associated with high level of inaccuracy and repetitions.

In order counteract the issues we have in house implant **H-SCAN BODIES** for preparing prosthetic part of the implants. Just place the scan bodies over the implant and scan it. The crown is fabricated using the scan data with ease and perfection eliminating all the need for physical impression making and repetitions, providing best fitting crowns to our patients.



We Do Digital Measurement for your Crowns on Dental Implant
using Implant H-Scan Bodies with 3 Shape Intraoral Scanner.
So Say No To Physical Measurement





Why 32 Dental Solutions for your
Digital 3D Guided Dental Implants

IMPLANT PLACEMENT DONE BY THE BEST OF THE HANDS

Your implant placement is done by **Dr. Rajiv Yadav (M.D.S.)**, Awarded Best Dentist in **Gurgaon**, performed many implants procedure till date and is a renowned implantologist.



Awarded by: Time Cyber Media in
Association with IBN7

OUR EXPERIENCE IN DENTAL IMPLANTS

When it comes for providing digital guided dental implants, we are far ahead as we have designed and delivered many implants to our patients in digital way. We are an experienced organisation in this field and provide in house facility from starting to end that gives us edge over others.





Workflow for Digital 3D Guided Dental Implants



3D Printed Guide Placement
in Patients Mouth



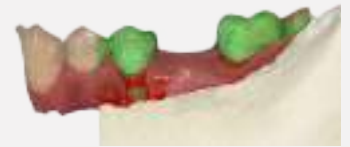
Intraoral 3D Scan
Done by 3 Shape, Intraoral Scanner



CBCT 3D Scan
Done by Ray Scan Alpha + CBCT Machine



Implant Placement
Using 3D Printed Surgical Guide



Fusion of Intraoral & CBCT Scan
Resulting in Patient's 3D Jaw Model



3D Printing
The Virtual Guide to Produce Actual Physical Guide



Digital Virtual Guide Fabrication
On Patients 3D Jaw Model



Digital Crown Planning
On Patients 3D Jaw Model



Digital Implant Planning
On Patients 3D Jaw Model

Digital Guided 3D Dental Implant are the Future of Dental Implants & We at 32 Dental Solutions have Mastered the Future





INTRAORAL Scanning: Workflow with the patient



Patient's INTRAORAL Scanning Done in Our Centre



Patient's INTRAORAL 3D Scan—Side View



Patient's INTRAORAL 3D Scan—Top View

CBCT Scanning: Workflow with the patient



Patients CBCT (Dental - CT Scan) Done in Our Centre



CBCT 3D Scan—Side View



CBCT 3D Scan—Top View





How We Do It

Digital 3D Guided Dental Implants: Welcome to the virtual World, Digital Virtual Planning Done by 3 Shape Implant Studio Software

Fusion of CBCT Scan With INTRAORAL Scan: Both INTRAORAL Scan and CBCT Scans are Merged to Create a Virtual Image with 4 Microns Accuracy in Respect to the Details in the Oral Cavity



Fusion of INTRAORAL Scan (Side View)



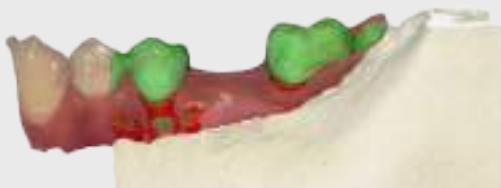
Fusion of INTRAORAL Scan (Top View)



With CBCT Scan (Side View)



With CBCT Scan (Side View)



Patient's 3D Virtul Jaw/Model Created (Side View)



Patient's 3D Virtul Jaw/Model Created (Top View)





How We Do It

Digital 3D Guided Dental Implants: Welcome to the Virtual World, Digital Virtual Planning Done by 3 Shape Implant Studio Software

Fabrication of Virtual Crown, Virtual Implant Placement & Virtual Guide Designing on Patient's 3D Jaw

VIRTUAL CROWN FABRICATION

A Virtual Crown is Placed in the Best Position which will be Occupied by Final Crown and is Frozen in the Software



Virtual Crown Placement on Patient's 3D Model - Side View

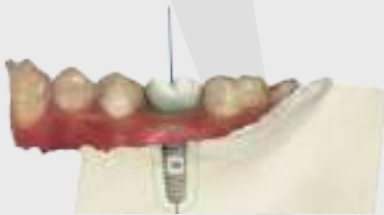


Virtual Crown Placement on Patient's 3D Model - Top View



VIRTUAL IMPLANT PLACEMENT

Now Best Position of the Implants is Planned and Frozen in Respect to the Virtual Crown Placed above, Bone Quality, Bone Thickness and Surrounding Vital Structure.



Virtual Crown Placement on Patient's 3D Model - Side View



Virtual Crown Placement on Patient's 3D Model - Top View



VIRTUAL GUIDE DESIGNING

A Digital Guide is Virtually Fabricated in Respect to the above Designed Final Implant Position.



Virtual Guide with Respect to the Implant - Side View



Virtual Guide with Respect to the Implant - Top View





How We Do It

Digital 3D Guided Dental Implants: Bringing Virtual World to Reality

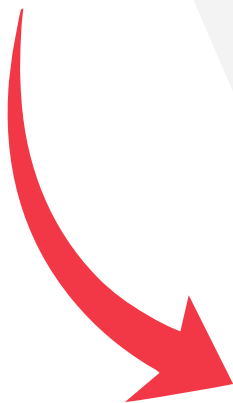
Planned Virtual Implant Surgical Guide is then 3D Printed in House by Our 3D Printer (Fabpro 1000—3D Systems)



Actual 3D Printed Surgical Guide for Guided Implant Placement



Virtual Surgical Guide Ready to be 3D Printed



3D Printing of Surgical Guide by using—FabPro 1000 3D Printer —3D Systems





How We Do It

Digital 3D Guided Dental Implants: Its Time for Digital Guided Implant Placement.

The 3D Printed Surgical Guide is checked in Patients Mouth for Fitting and Implant is placed Accurately using the Guide Hole in Correct Position and Angulation as Planned Digitally.



3D Printed Surgical Guide



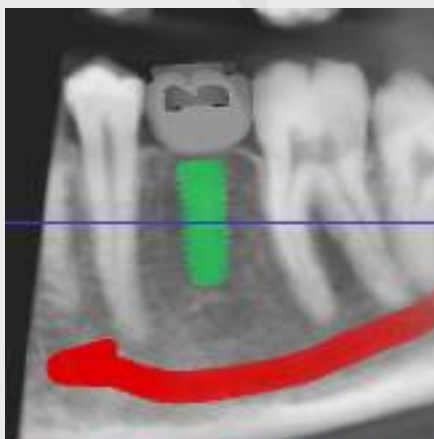
Surgical Guide Placement in Patient's Mouth



Dental Implant Placement using the Surgical Guide. No Incision & Suturing Required

Accuracy of Digital 3D Guided Dental Implants: Lets Talk Logical—When we Talk about Accuracy, we want to Show Evidence Based Implant Treatment Results.

The Digital Planning Of Implant Position & Placement Compared To Actual Implant Position & Placement In The Jaw Is Almost Identical With No Deviation At All As Compared In The Below Pic.



Digital Implant Planning Prior to Implant Placement



Post Operative X-ray after the Implant Placement





EXCELLENT CROWN POSITIONS—TRUE PROSTHETIC DRIVEN IMPLANTS

Since You Have Selected Implants Not Because Of Implants to Be Placed, But Because You Want Missing Tooth/Teeth Replacement In The Form Of Crowns Etc Over The Implants. So, Placement And Final Outcome Of The Crown Position Is Utmost Important Before Proceeding To Implant Placement Itself.

In this method as the first step is to design the crown and then implant position in respect to that crown, which always result in beautifully and well placed crowns at the end after each and every implant placement in the mouth.



Excellent implant positioning resulting



Excellent crown positioning

NO INCISION & NO SUTURING REQUIRED

Conventional implant placement method required giving incision in the gums and retracting it to make the bone visible for placement of the implant and later on providing suture to close the incision and recalling patient after 10 days for suture removal.

Digital guided way eliminates all need for providing incision and suturing as the implants are placed using guide hole in gums, which is pre-planned in the software for perfect position, resulting in precise key hole opening on the gums for implant placement. So say, BIG NO to incision and suturing.



Digital Guided Implants - No Incision And Suturing Required



Conventional Implants - Incision And Suturing Required

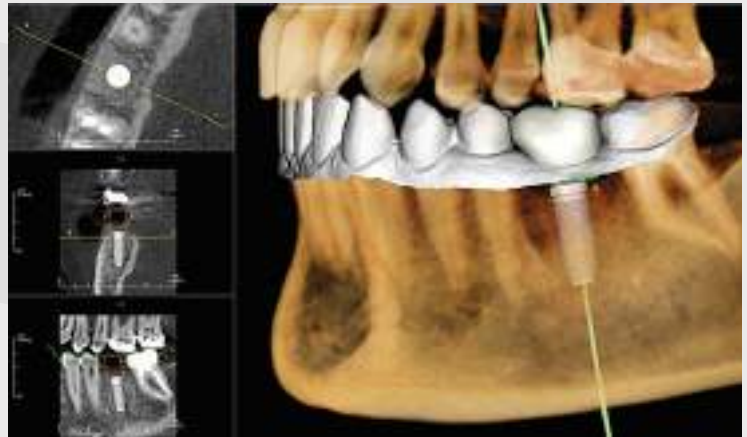




3D CT SCAN ANALYSIS BETTER THEN CONVENTIONAL 2D PANAROMIC VIEW ANALYSIS

In conventional implants majority the implant planning and placement is done using a 2 dimensional Xray which may be anytime misleading resulting in implant failure or injury to vital structure.

Where as in digital guided implants, the planning in the software is always done using CBCT which gives you overall 3 dimensional image of the jaws and the vital structure present. This result with planning and implant positioning in accordance to a better bone and better angulation taking care of all the vital structures. The over all outcome is excellent implant placement for long term peace of mind.



CT Scans Revealing 3 Dimensional—Bone Width, Height, Quality and Shape Along with the Vital Structure Nearby

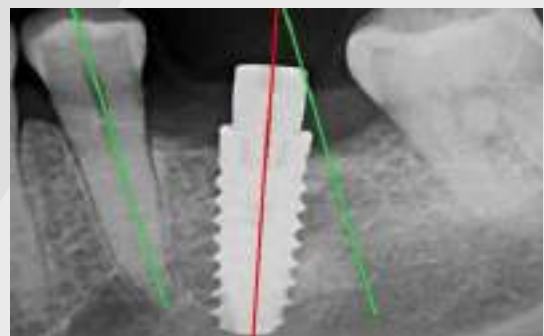
MORE PRECISION AND ACCURACY

In convention implants the final positioning will depend upon the angulation of the drills during osteotomy, many times resulting in wrong angulation, and hence wrong angulated implant placement.

While in digital guided implants, the implant angulation is predetermined in software and the implant drills and implants are guided through the guide hole in perfect angulation and position, as planned. So any time the digital guided implants are more accurate and more precise than conventional.



Digital Guided Implants—Accurate Implant Anglution and Position



Conventional Implants—Inaccurate Implant Anglution and Position





DOCUMENTED MORE SUCCESS RATE WITH LEAST OR NO BONE LOSS

The basic problem with dental implants lies in the fact that there could be a bone loss around the implants.

The predisposing factor could be many, but the one of the main reason is that when attached gingiva is reflected during conventional implants, it can lead to bone loss. It has been documented that more we manipulate attached gingiva, the more chances of bone loss occurs.

While in digital guided implants, we do not reflect or manipulate attached gingiva for implant placement, resulting in lesser or no bone loss in comparison of conventional implants.



Digital Guided Implants—No Attached Gingiva Reflected, So No Bone Loss



Conventional Implants—Attached Gingiva Is Reflected Leading To Bone Loss

KNOW YOUR IMPLANT OUTCOME BEFORE THE SURGERY

The main issue which lies with in conventional dental implants lies in the fact that you will come to know about the outcome of the treatment in respect to the angulation, positioning, proximity to the vital structure, requirement of bone grafts and crown positioning during and after the procedure.

While at 32 Dental solutions, we share your complete virtual treatment plan before the procedure. The virtual treatment plan is almost accurate and chances of deviating from the final outcome is negligible or none. So when it comes to digital guided implants, you will know what would be the outcome beforehand.



Digital Guided Implant Planning—Side View



Digital Guided Implant Planning—Top View



CBCT Planning





NO PAIN AT ALL WITH NO POSTOPERATIVE PROBLEMS

Since it is a minimally invasive procedure, our patients don't go through any post-operative pain or swelling, resulting happy patients with molar to molar smile. We always believe and make sure that: Your Treatment Pain Free Or It's Free



REDUCED SURGICAL TIME

In this era, we always want that our time is fruitfully managed and so, we always recommend digital guided dental implants. This technique may substantially reduce the time necessary for implant surgery. Due to extensive planning prior to implant placement, there are fewer unexpected findings during surgery.

Your implant placement won't take more than 15 minutes overall, with exceptionally well placed implant





FINANCIAL TRANSPARENCY FOR YOUR IMPLANT SERVICES

Regardless of Providing Best in House Top to Bottom Implant Services, we always believe in total Transparency and so we Provide all the Details for your Implants before Hand. Cost of the Implants will Depend Upon Case to Case, but the Given Cost would Comprise of All the Services we Offer for the Digital Guided Implants, with **No Hidden Charges**.

INCLUSIONS

- 3 Shape Intraoral Scanning
- In House—CBCT
- Digital Implant Planning—Implant Studio
- 3D Printing Of The Guide—3D Systems
- Surgery
- Dental Implant
- Abutment
- Postoperative CBCT Scan
- Ostell—ISQ Determination Of The Osteointegration
- Prosthetic Intraoral Scanning With Scan Bodies
- 3D Printing of Prosthetic Cast

EXCLUSIONS

- Any Prosthesis Which Is Applicable As Per The Case—Dental Crown/Denture Etc (If Required)
- Extraction of Existing Tooth (If Required)
- Sinus Lift (If Required)
- Bone Grafting (If Required)
- Membrane (If Required)
- Other Prosthetic Component (If Required)





Why Choose 32 Dental Solutions for Your Digital 3D Guided Dental Implants

Check list of digital guided implant services here at 32 dental solutions, so that your selection of the implant centre is not compromised and completely transparent

SERVICES	AT 32 DENTAL SOLUTIONS	OTHER IMPLANT CENTRES
• 3 Shape Intraoral Scanning	✓	✗
• CBCT—Dental CT Scan	✓	✗
• Digital Implant Planning—Implant Studio	✓	✗
• 3D Printing of Surgical Guide	✓	✗
• Implant Surgery	✓	✓
• Dental Implant	✓	✓
• Implant Abutment	✓	✓
• Osstell - ISQ Determination of the Osteointegration	✓	✗
• Prosthetic Intraoral Scanning with the Scan Bodies	✓	✗
• 3D Printing of Prosthetic Cast	✓	✗
• PRF Graft/Membrane Formation	✓	✗
• Guided Sinus Lift, When Needed	✓	✗
• Digital Guided for All – Regular, Wide and Narrow Implant	✓	✗
• Rocky Mountain Bone Graft, When Needed	✓	✗
• Postoperative CBCT—Dental CT Scan	✓	✗
• Digital Guided Implant Services	IN-HOUSE	✗

Because You Deserve the Best.





Welcome to 32 Dental Solutions for your
Digital 3D Guided Dental Implants

BIGGEST COMMERCIAL DENTAL SETUP WITH STATE OF THE ART EQUIPMENTS PROVIDING EXCELLENT DENTAL TREATMENT





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