

The background of the image is a close-up of a hand holding a dental handpiece. The hand is wearing a white glove. The handpiece is a metal tool with a long, thin, cylindrical tip. The word "VERTEX" is overlaid in the center of the image in a white, bold, sans-serif font. The letter 'V' has a blue horizontal bar through it, and the letter 'X' has a blue diagonal bar through it. The entire image is framed by a white border with rounded corners.

# VERTEX

[WWW.VERTEXLAB.CO](http://WWW.VERTEXLAB.CO)

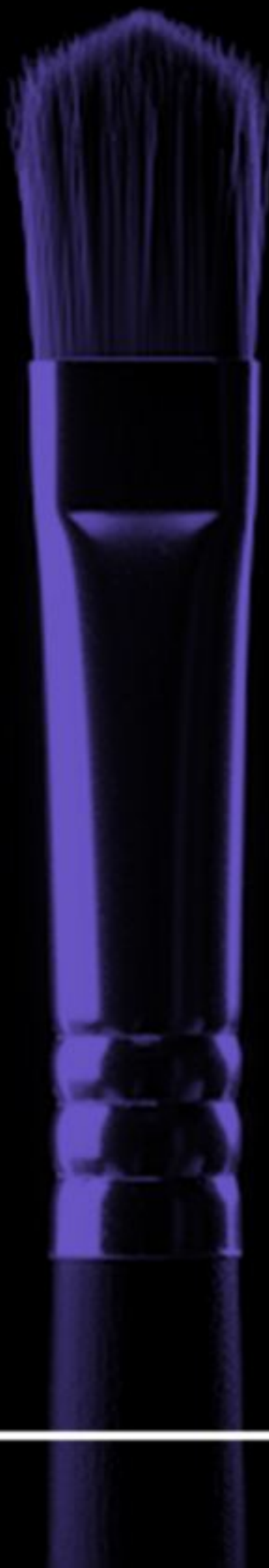
# WHO ARE WE?

FOUNDED IN ERBIL, IRAQ, IN 2022

VERTEX DIGITAL DENTAL LAB IS A LEADER IN DENTAL INNOVATION  
BLENDING TRADITIONAL CRAFTSMANSHIP WITH A FULLY DIGITAL WORKFLOW



BY UTILIZING STATE-OF-THE-ART 3D SCANNING AND GLOBALLY RECOGNIZED DENTAL TECHNOLOGIES, THE LAB ENSURES UNMATCHED PRECISION, EFFICIENCY, AND AESTHETICS IN EVERY RESTORATION. THIS COMMITMENT TO MODERN HIGH-RESOLUTION TOOLS ALLOWS FOR HIGHLY ACCURATE DIGITAL IMPRESSIONS AND SUPERIOR QUALITY STANDARDS FOR ALL DENTAL PRODUCTS



VERTEX DIGITAL DENTAL LAB UTILIZES THE HIGH-PERFORMANCE ZIRKONZAHN M1 MILLING MACHINE TO ACHIEVE EXCEPTIONAL PRECISION AND DETAIL IN EVERY RESTORATION. THIS ADVANCED MULTI-AXIS SYSTEM PROVIDES FULL CONTROL OVER THE MANUFACTURING PROCESS ACROSS VARIOUS MATERIALS, INCLUDING ZIRCONIA AND HYBRID CERAMICS. BY COMBINING THIS CUTTING-EDGE TECHNOLOGY WITH PREMIUM, BIOCOMPATIBLE MATERIALS, THE LAB DELIVERS DURABLE, HIGH-AESTHETIC RESULTS THAT MEET THE STRICTEST CLINICAL STANDARDS AND OPTIMIZE PATIENT SATISFACTION

## OPERATIONS SCALE

VERTEX DIGITAL DENTAL LAB COMBINES HIGH-VOLUME CAPACITY WITH ELITE PRECISION, PROCESSING UP TO 200 CASES DAILY THROUGH A STREAMLINED, FULLY DIGITAL WORKFLOW. BY UTILIZING ADVANCED TECHNOLOGIES LIKE THE ZIRKONZAHN M1 MILLING UNIT AND A CENTRALIZED DIGITAL TRACKING SYSTEM, THE LAB ENSURES EXCEPTIONAL DIMENSIONAL ACCURACY AND REAL-TIME OVERSIGHT FOR EVERY RESTORATION. THIS OPTIMIZED PRODUCTION CYCLE, MANAGED BY A SYNCHRONIZED TEAM OF EXPERT TECHNICIANS, MAINTAINS RIGOROUS QUALITY ASSURANCE PROTOCOLS FOR FIT AND AESTHETICS. CONSEQUENTLY, VERTEX DELIVERS A CONSISTENT 2-3 WORKING DAY TURN-AROUND TIME, OFFERING CLINICAL INSTITUTIONS A RELIABLE PARTNERSHIP THAT BALANCES RAPID OUTPUT WITH UNCOMPROMISED PROFESSIONAL STANDARDS



# DIGITAL CONCEPT

Vertex

[← Back](#) Create Vertex Order

Dentist Name \*  
Select dentist

Patient Name \*  
Enter patient name

Gender \*  
Select gender

Age \*  
Enter age

Vita 3D Master \*  
Select Vita 3D Master

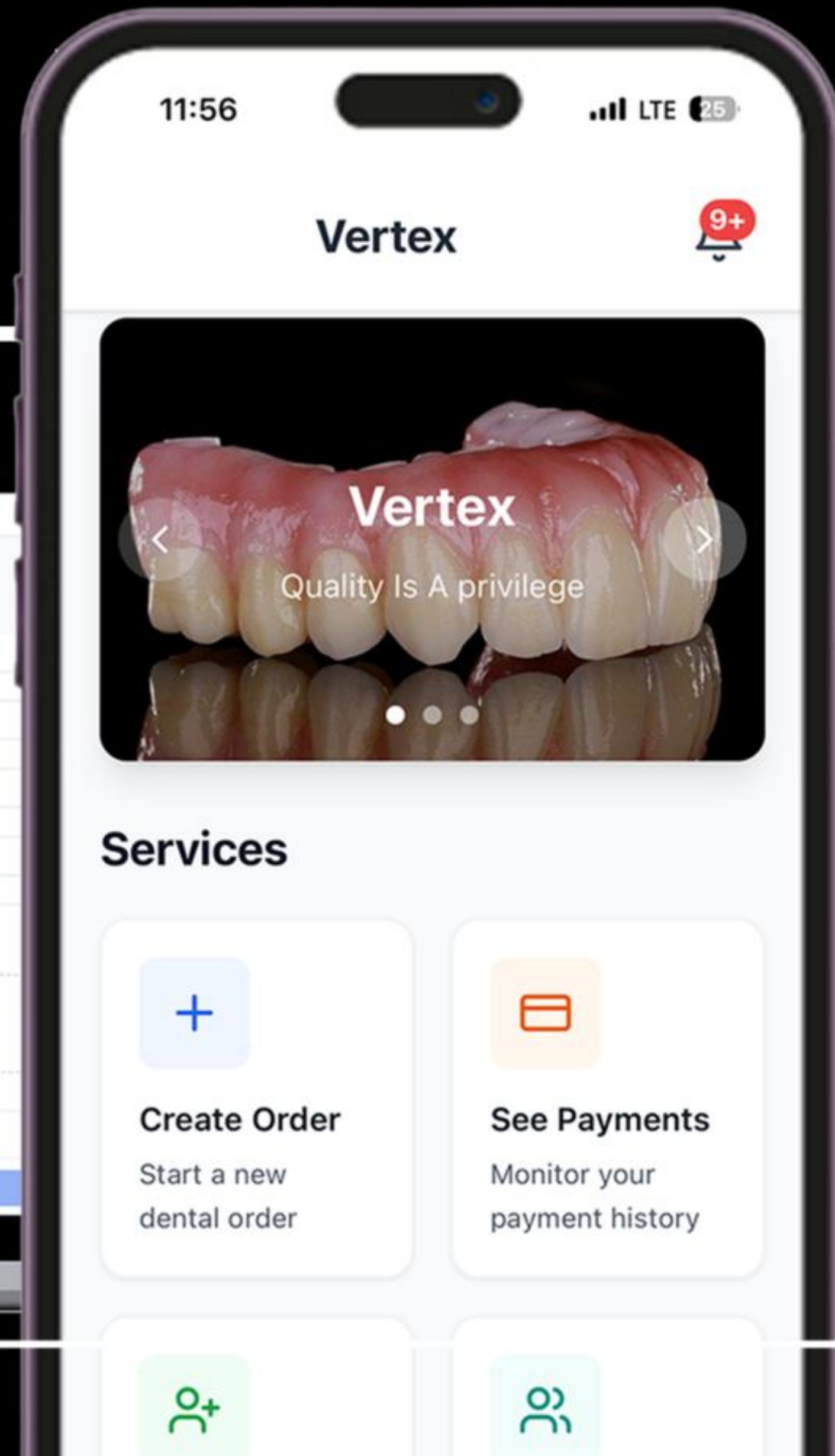
Vita Classical \*  
Select Vita Classical

☐ Digital Order

Send DSD File  
Click to upload or drag and drop  
PNG, JPG, PDF, ZIP, DOC up to 50MB

Notes  
Enter any additional notes or instructions...

Cancel Create Order (0 teeth)





# DIGITAL WORKFLOW

AT VERTEX DIGITAL DENTAL LAB, OUR NAME IS MORE THAN JUST A TITLE — IT REFLECTS OUR FULL COMMITMENT TO EMBRACING DIGITAL TRANSFORMATION IN DENTISTRY. WE HAVE BUILT OUR OPERATIONS ON A FULLY DIGITIZED ECOSYSTEM THAT BRIDGES THE GAP BETWEEN DENTAL CLINICS AND THE LAB, ENSURING SEAMLESS COMMUNICATION, ACCURATE SUBMISSIONS, REAL-TIME UPDATES, AND FASTER TURNAROUND TIMES. A KEY PART OF THIS ECOSYSTEM IS OUR CUSTOM-DEVELOPED MOBILE APPLICATION, DESIGNED TO SIMPLIFY EVERY STEP OF THE CASE SUBMISSION AND TRACKING PROCESS. AVAILABLE ON BOTH IOS AND ANDROID, THE APP ALSO SUPPORTS A WEB-BASED PORTAL, PROVIDING COMPLETE CROSS-PLATFORM ACCESSIBILITY FOR DENTAL PROFESSIONALS



# CORE VALUE

OUR PLATFORM DOES MORE THAN MANAGE CASES — IT EMPOWERS DENTISTS WITH BETTER CONTROL, SPEED, AND INSIGHT. BY DIGITIZING AND PERMANENTLY ARCHIVING EVERY INTERACTION, WE HELP CLINICS BUILD MORE RELIABLE WORKFLOWS, IMPROVE PATIENT EXPERIENCES, AND ENSURE CONTINUITY OF CARE — TODAY, TOMORROW, AND YEARS DOWN THE LINE. AT VERTEX, DIGITAL INNOVATION ISN'T JUST A FEATURE — IT'S OUR FOUNDATION

## SEAMLESS CASE SUBMISSION

DENTISTS CAN SUBMIT CASES IN JUST A FEW CLICKS USING OUR APP'S INTUITIVE INTERFACE. WHETHER IT'S A DIRECT UPLOAD FROM AN INTRA ORAL SCANNER OR DETAILS FROM A TRADITIONAL IMPRESSION ALL CASE DATA IS CONSOLIDATED INTO A SINGLE DIGITAL DASHBOARD

## REAL-TIME CASE TRACKING

ONCE SUBMITTED, CASES CAN BE TRACKED AT EVERY STEP — FROM DESIGN MILLING, AND FINISHING, ALL THE WAY TO DISPATCH. LIVE STATUS UPDATES AND TIME-STAMPS ENSURE FULL TRANSPARENCY AND REDUCE THE NEED FOR BACK-AND-FORTH CALLS

## SMART NOTIFICATIONS & ALERTS

INFORMED WITH REAL-TIME NOTIFICATIONS ABOUT CASE UPDATES, DELIVERY STATUS, AND TECHNICAL REQUESTS. YOU'LL NEVER MISS A DEADLINE OR UPDATE AGAIN

## INSTANT SUPPORT & DIRECT CONTACT

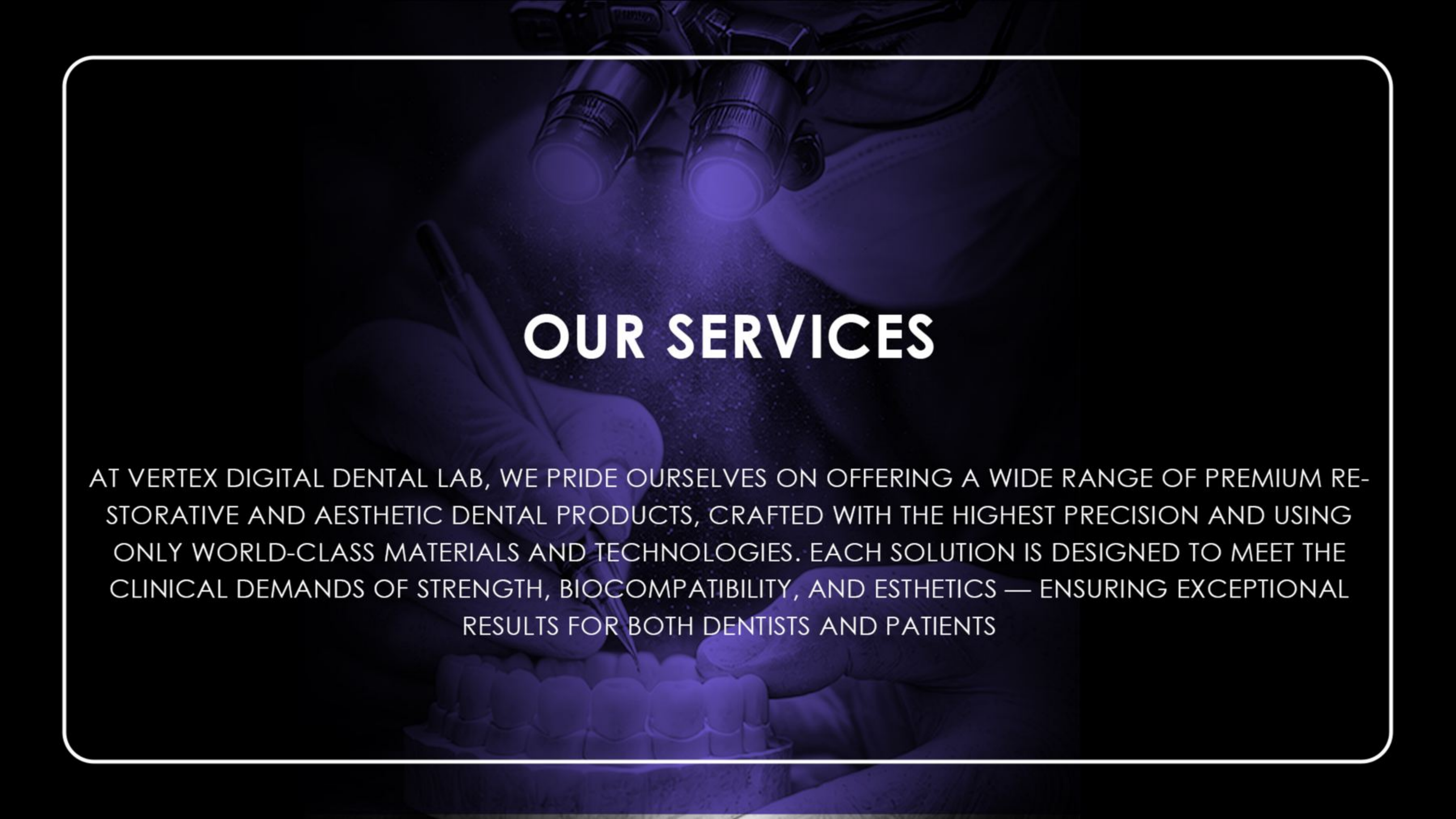
BUILT-IN CHAT AND SUPPORT FEATURES ALLOW DENTISTS TO INTERACT DIRECTLY WITH OUR TECHNICAL TEAM. WHETHER YOU NEED TO ADJUST A DESIGN, CLARIFY A PRESCRIPTION, OR DISCUSS A SPECIAL REQUEST, HELP IS ALWAYS ONE TAP AWAY

## SECURE & PERMANENT DIGITAL ARCHIVING

EVERY CASE — WHETHER SUBMITTED DIGITALLY OR FROM A PHYSICAL IMPRESSION — IS CONVERTED INTO A SECURE SOFTCOPY, ARCHIVED WITHIN OUR SYSTEM, AND STORED INDEFINITELY. THIS PERMANENT RECORD ALLOWS CLINICS TO ACCESS CASE HISTORIES AT ANY TIME, ENSURING DATA RELIABILITY TRACEABILITY, AND SUPPORT FOR FUTURE TREATMENT PLANNING OR REMAKES

## ADVANCED DATA SECURITY

ALL USER DATA, SCANS, AND COMMUNICATIONS ARE ENCRYPTED AND BACKED UP USING INDUSTRY-GRADE PROTOCOLS TO PROTECT CONFIDENTIALITY AND ENSURE COMPLIANCE WITH INTERNATIONAL HEALTH DATA STANDARDS

A close-up, high-contrast photograph of a dental procedure. A dentist's gloved hand is visible, holding a dental instrument near a patient's teeth. A dental operating microscope is positioned above the work area, with its lenses and adjustment knobs clearly visible. The scene is dimly lit, with the primary light source being the microscope's illumination, creating a focused and clinical atmosphere. The overall color palette is dark, with highlights on the metal instruments and the patient's teeth.

# OUR SERVICES

AT VERTEX DIGITAL DENTAL LAB, WE PRIDE OURSELVES ON OFFERING A WIDE RANGE OF PREMIUM RESTORATIVE AND AESTHETIC DENTAL PRODUCTS, CRAFTED WITH THE HIGHEST PRECISION AND USING ONLY WORLD-CLASS MATERIALS AND TECHNOLOGIES. EACH SOLUTION IS DESIGNED TO MEET THE CLINICAL DEMANDS OF STRENGTH, BIOCOMPATIBILITY, AND ESTHETICS — ENSURING EXCEPTIONAL RESULTS FOR BOTH DENTISTS AND PATIENTS

## **FULL-ANATOMY ZIRCONIA (PRETTAU® ZIRCONIA, 1200 MPA)**

OUR FULL-CONTOUR ZIRCONIA RESTORATIONS ARE MILLED USING PRETTAU® ZIRCONIA BLOCKS, RENOWNED FOR THEIR EXCEPTIONAL STRENGTH (1200 MPA) TRANSLUCENCY, AND BIOCOMPATIBILITY

## **PORCELAIN-FUSED-TO-ZIRCONIA (PFZ) – (PRETTAU® CORE + VITA/GC CERAMIC)**

OUR PFZ RESTORATIONS COMBINE THE STRUCTURAL INTEGRITY OF PRETTAU® ZIRCONIA FRAMEWORKS WITH THE ESTHETIC FINESSE OF VITA AND GC LAYERING CERAMICS

## **PFZ – IVOCAR CERAMIC LAYERING + E.MAX® STAINS**

FOR HIGH-END ESTHETIC CASES, WE OFFER A PREMIUM PFZ OPTION USING IVOCAR CERAMIC LAYERING COMBINED WITH E.MAX® STAINS AND GLAZES

## **E.MAIPS X® INLAYS & ONLAYS**

OUR AT VERTEX DIGITAL DENTAL LAB, WE OFFER IPS E.MAX® INLAY AND ONLAY RESTORATIONS DESIGNED FOR CASES REQUIRING CONSERVATIVE HIGHLY ESTHETIC, AND DURABLE POSTERIOR RESTORATIONS

## **CAD/CAM PMMA TEMPORARIES (HIGHLY BIOCOMPATIBLE LONG-TERM PROVISIONALS)**

OUR CAD/CAM-MILLED PMMA TEMPORARIES ARE CRAFTED FROM HIGH-QUALITY, MEDICAL-GRADE POLYMETHYL METHACRYLATE BLOCKS DESIGNED SPECIFICALLY FOR LONG-TERM PROVISIONAL USE

## **IPS E.MAX® RESTORATIONS (IVOCLAR PRESS & PRE-PRESSED TECHNIQUES)**

CRAFTED FROM IVOCLAR VIVADENT'S IPS E.MAX® LITHIUM DISILICATE INGOTS, OUR E.MAX RESTORATIONS PROVIDE UNMATCHED ESTHETICS, LIGHT TRANSMISSION, AND STRENGTH (UP TO 530 MPA). SUITABLE FOR VENEERS, INLAYS, ONLAYS, ANTERIOR CROWNS, AND MINIMAL-PREP RESTORATIONS WE OFFER BOTH PRESS TECHNIQUE AND PRE-PRESSED CAD/CAM MILLING TO MATCH THE CLINICAL REQUIREMENTS AND SHADE ACCURACY

## **DIGITAL IMPLANTOLOGY SOLUTIONS**

CRAFTED VERTEX OFFERS A COMPLETE RANGE OF DIGITALLY DESIGNED IMPLANT-SUPPORTED RESTORATIONS INCLUDING CUSTOMIZED ABUTMENTS SCREW-RETAINED CROWNS, BRIDGES, AND FULL-ARCH RESTORATIONS. OUR SOLUTIONS ARE DESIGNED USING PRECISE 3D SCANS AND IMPLANT PLANNING SOFTWARE, ENSURING OPTIMAL EMERGENCE PROFILES, PASSIVE FIT, AND SOFT-TISSUE MANAGEMENT

## **NIGHT GUARDS & ORTHODONTIC RETAINERS**

WE MANUFACTURE CUSTOM NIGHT GUARDS FOR BRUXISM AND TMJ PROTECTION, USING DURABLE, FLEXIBLE MATERIALS THAT ENSURE COMFORT AND LONG-TERM PERFORMANCE. OUR CLEAR ORTHODONTIC RETAINERS ARE DIGITALLY DESIGNED AND THERMOFORMED FOR PRECISE FIT, CLARITY AND RETENTION

## **PORCELAIN-FUSED-TO-METAL (PFM) – (3D METAL PRINTING + VITA/GC CERAMIC)**

OUR PFMS ARE FABRICATED USING STATE-OF-THE-ART 3D METAL PRINTING TECHNOLOGY FOR UNMATCHED PRECISION AND FIT. USING COBALT-CHROMIUM THE FRAMEWORKS ARE PRINTED LAYER-BY-LAYER WITH CONTROLLED DENSITY AND CONSISTENCY. THESE METAL SUBSTRUCTURES ARE VENEERED WITH VITA AND GC CERAMICS, OFFERING EXCELLENT DURABILITY, MARGINAL ADAPTATION, AND LONG-TERM ESTHETIC PERFORMANCE



# MATERIAL INTEGRITY

AT VERTEX DIGITAL DENTAL LAB, PRECISION BEGINS WITH MATERIAL SELECTION. WE TAKE PRIDE IN SOURCING ONLY TOP-TIER BIOCOMPATIBLE AND BIODEGRADABLE RESINS FOR ALL OF OUR 3D PRINTING APPLICATIONS INCLUDING SURGICAL GUIDES, DIAGNOSTIC MODELS, WAX-UPS, ORTHO APPLIANCES, AND CASTABLE PATTERNS. EVERY MATERIAL IS CAREFULLY VETTED TO ENSURE IT MEETS THE HIGHEST INTERNATIONAL STANDARDS FOR SAFETY, DURABILITY, AND ENVIRONMENTAL RESPONSIBILITY. OUR 3D PRINTED PRODUCTS ARE CREATED USING CERTIFIED CLASS I AND CLASS II MEDICAL-GRADE RESINS, DESIGNED SPECIFICALLY FOR INTRAORAL USE AND CLINICAL APPLICATIONS. THESE MATERIALS EXHIBIT EXCELLENT DIMENSIONAL STABILITY, STRENGTH, AND SURFACE DETAIL MAKING THEM IDEAL FOR ACCURATE TREATMENT PLANNING AND LONG-TERM USE

## BIOCOMPATIBILITY & BIODEGRADABILITY

WE ARE COMMITTED TO USING RESINS THAT ARE FREE FROM HARMFUL MONOMERS AND ALLERGENS, ENSURING SAFE CONTACT WITH BOTH PATIENT TISSUES AND DENTAL TEAM PERSONNEL. WHERE APPLICABLE, WE UTILIZE ECO-FRIENDLY BIODEGRADABLE MATERIALS FOR TEMPORARY AND DISPOSABLE APPLICATIONS, REDUCING OUR ENVIRONMENTAL FOOTPRINT WITHOUT COMPROMISING PERFORMANCE

## STERILIZATION & POST-PROCESSING

EVERY PRINTED PART UNDERGOES A STRICT POST-CURING AND STERILIZATION PROTOCOL, ENSURING IT IS SAFE, DURABLE AND READY FOR INTRAORAL OR SURGICAL USE. WHETHER UV-CURED OR AUTOCLAVE-COMPATIBLE, OUR PRINTED COMPONENTS MEET CLINICAL HYGIENE REQUIREMENTS AND INTEGRATE SMOOTHLY INTO MODERN DENTAL WORKFLOWS. THIS DEDICATION TO MATERIAL INTEGRITY, COMBINED WITH ADVANCED 3D PRINTING SYSTEMS AND QUALITY CONTROL, ALLOWS US TO OFFER HIGHLY ACCURATE, SAFE, AND SUSTAINABLE DENTAL SOLUTIONS FROM THE MODEL STAGE ALL THE WAY TO THE FINAL RESTORATION

