



PRODUCT CATALOGUE

EDITION 7



WWW.RACEDENTAL.COM.AU
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86+
YEARS OF
DENTAL
EXCELLENCE

100% Australian and New Zealand Made, Quality Lab Products

AUSTRALIA

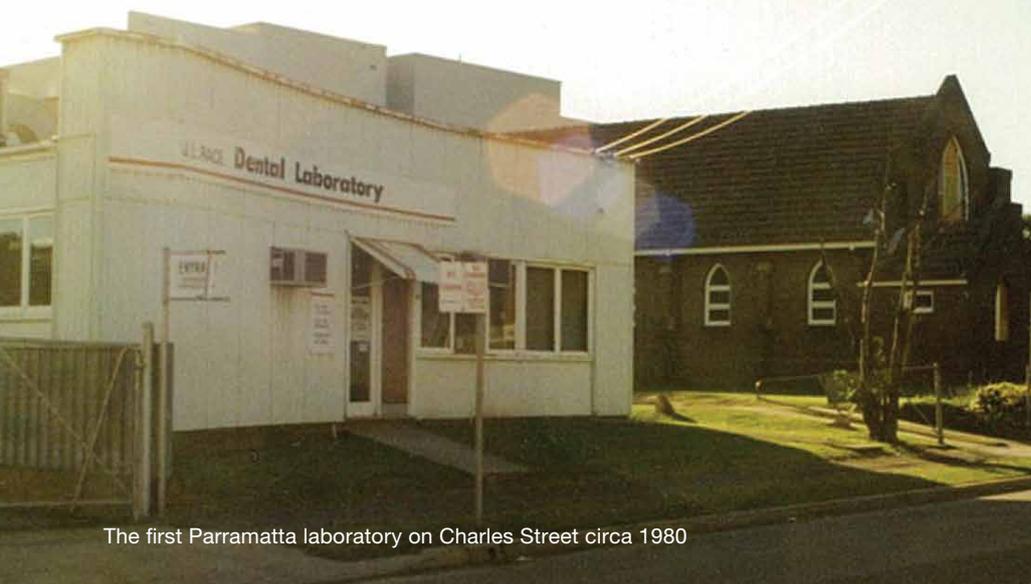
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NEW ZEALAND

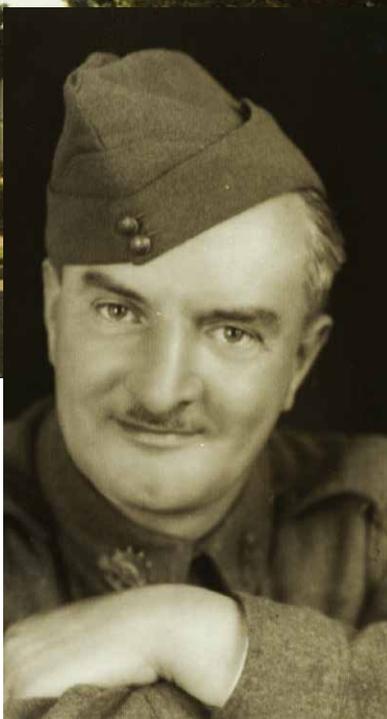
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The first Parramatta laboratory on Charles Street circa 1980



Company Founder John Leonard Race Circa 1940

Our History

Race Dental has grown from modest beginnings - John Leonard Race founded the original laboratory at 141 Macquarie Street, Sydney, in 1936. Assisted by his wife Lucy he slowly built the customer base of the business.

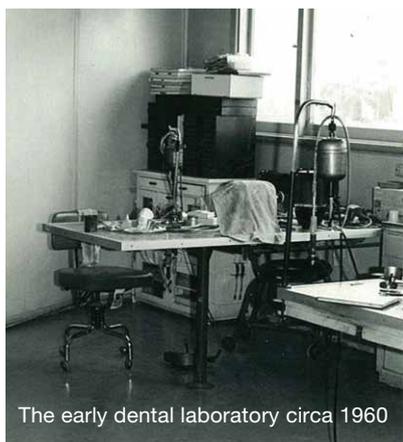
In 1940 John was drafted into the Australian Army for a second time and forced to leave the business and his heavily pregnant wife, for the Middle East and Papua New Guinea. In his absence and fearing the worst, Lucy named their son after him. She reverted to John's preference and began calling the infant David once she received John's congratulatory telegraph some days after the birth. John had been badly injured in Papua New Guinea and negotiated the infamous Kokoda trail on a broken knee, with bamboo crutches made by a friendly local. He later returned safely to Australia, his wife, and his 2 year old son.

After the second world war John realised the west of Sydney would grow rapidly and relocated the business to a premises shared with a dental practice, at 2 The Kingsway, Wentworthville. John was shown to be right, there was a shortage of dental practices in the western area and work flowed in.

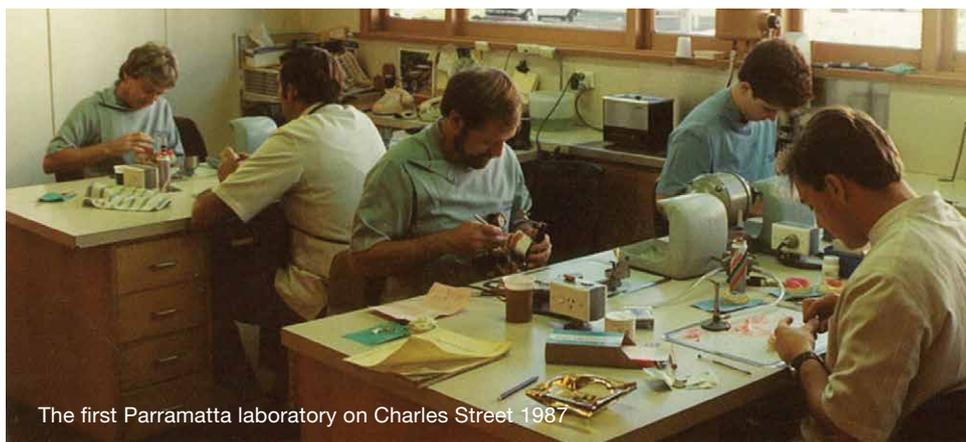
In 1954 a small purpose-built laboratory was constructed in the nearby, larger town of Parramatta to accommodate an expanding customer base.

The laboratory continued to develop strong and loyal customers and in 1956 John's eldest son David (né John) joined the company. By 1987 the staff had grown to over 20 and the outstanding success of the family business allowed for a fully equipped, state-of-the-art dental laboratory to be set up in North Parramatta.

Faced with seismic changes to the industry in the 1990's and 2000's, Race Dental invested heavily in new technology and digital workflow automation to allow a broader solution to be provided to customers. During this time Race was always **"At the Forefront of Technology"** – the business' motto for many years.



The early dental laboratory circa 1960



The first Parramatta laboratory on Charles Street 1987



Race Dental Today

Today David's sons, Brad, Matt and Anthony operate the business from an ultra modern Sydney facility covering 2500m², making it the largest in Australia. With more than 85 years of industry experience, spanning three generations, the Race Dental team boasts an unsurpassed record of excellence and performance in the realm of dental production and technology.



The business prides itself on industry leading adoption of new technology and the ongoing training and development of key people to efficiently deliver a full suite of traditional and digital laboratory services. It is this focus on perpetually evolving and leading the market that has allowed the business to keep manufacturing 100% locally in Australia and New Zealand and continue to be the most advanced dental laboratory.

The focus, as always, remains on our customers. We exist to fulfil the potential of the dental professionals we serve by providing them with optimal solutions and the highest quality products.

In 2017, Race Dental continues to expand, opening a fully digital production facility in Grey Lynn, Auckland.

IMPRESSION OPTIONS

Race Dental is the most advanced Australian dental laboratory and accepts all types of impressions from traditional PVS to digital impressions taken with all these leading digital systems.





Fast Turnaround

The schedule below shows our production times in-lab. We offer nationwide delivery through our reliable delivery partners. Cases are booked using overnight delivery services and are updated with tracking information, so you know exactly where your products are at all times. Please allow 1-2 days from the advised despatch date to arrival at your practice. Alternatively, pick-up is available from our facilities located at Castle Hill, NSW Australia or Grey Lynn, Auckland New Zealand.

Products	Days in Lab (Australia)	Days in Lab (New Zealand)
Crown and Bridge	5	7
Post, Core & Crown	7	7
Implants	5-10	10
Acrylic / Flexible	3-5	3-5
Chrome	5	7
Relines, Repairs and Additions	1-2	1-2
Clear Aligners	5	7
Orthodontics	3-5	5

* Delivery and despatch are approximate and may vary due to demand. Both Race Dental and our logistic partners do the best to provide realistic arrival estimates; however, they should be used as a guide only and not relied upon for certainty. To be updated on the delivery of your jobs, please contact us at customersupport@racedental.com.au or customersupport@racedental.co.nz

Crown and Bridge

Race Dental offers a large range of traditional and modern crown and bridge restoration services. All work is completed in Australia and New Zealand by fully trained dental technicians using the latest equipment and specialist quality control technicians to ensure consistent quality assurance.

Material Options

Race Dental offers you access to all the traditional and modern materials however you choose to take impressions. A range of handmade metal and metal free restorations to digitally manufactured metal and metal free restorations. For optimal results we recommend the full digital workflow.

Standard and Premium Options

Race Dental offers the broadest range of different systems with various levels of customisation to suit your requirements and budget.

“Premium restorations are the very best replacement for natural dentition, both functionally and aesthetically.”

Matthew Race, LVI Master Technician





Crystalite™

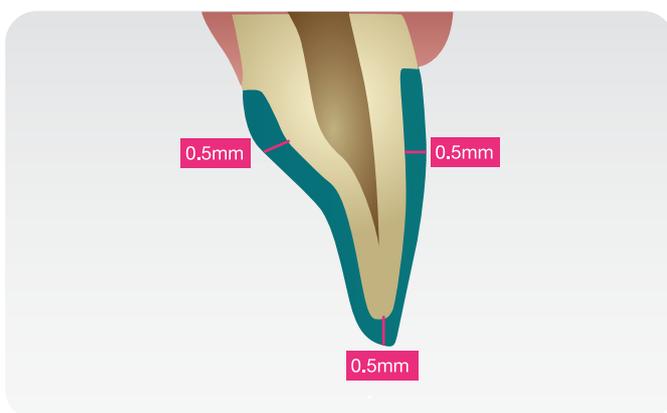


The new Crystalite™ crown is a material revolution for dentists who love aesthetics and excellence.

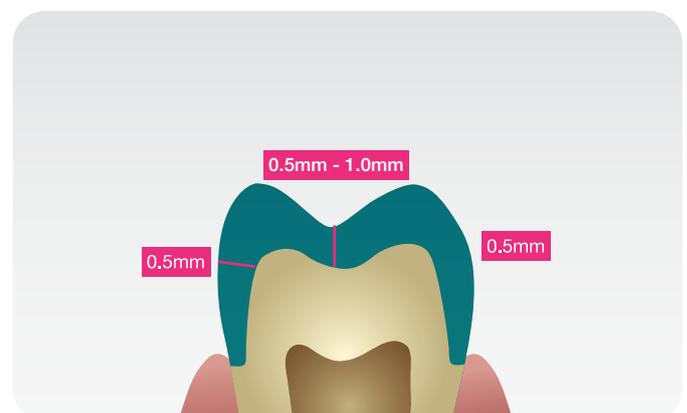
A highly biocompatible material with outstanding transparency. The Crystalite system combines the known positive properties of zirconia with a significant increase in translucency as is known only from lithium disilicate. This material is perfect for all highly aesthetic treatments in anterior and posterior single tooth regions.

Impression technique	Digital or Traditional
Material	Monolithic Super Translucent Zirconia
Indications	Full mouth, crowns, implants
Recommended use	Full mouth, single crowns, 3 unit bridges
Margins	Feather edge, chamfer or shoulder
Cementation	Conventional cementation
Etch	N/A
Recommended adhesive	3M ESPE RelyX™ Unicem 2
Turnaround time	5 lab days
Method of manufacture	Digitally designed and manufactured
Aesthetics	★★★★★
Shades / Colouring	No internal effects, standard shades
Strength	★★★★★
Add-on options	Fit to denture
Benefits	High durability extreme strength, metal-free, exceptional accuracy
Warranty	15 years
Type	Standard crown
Popularity	★★★★★
Strength	>750MPa

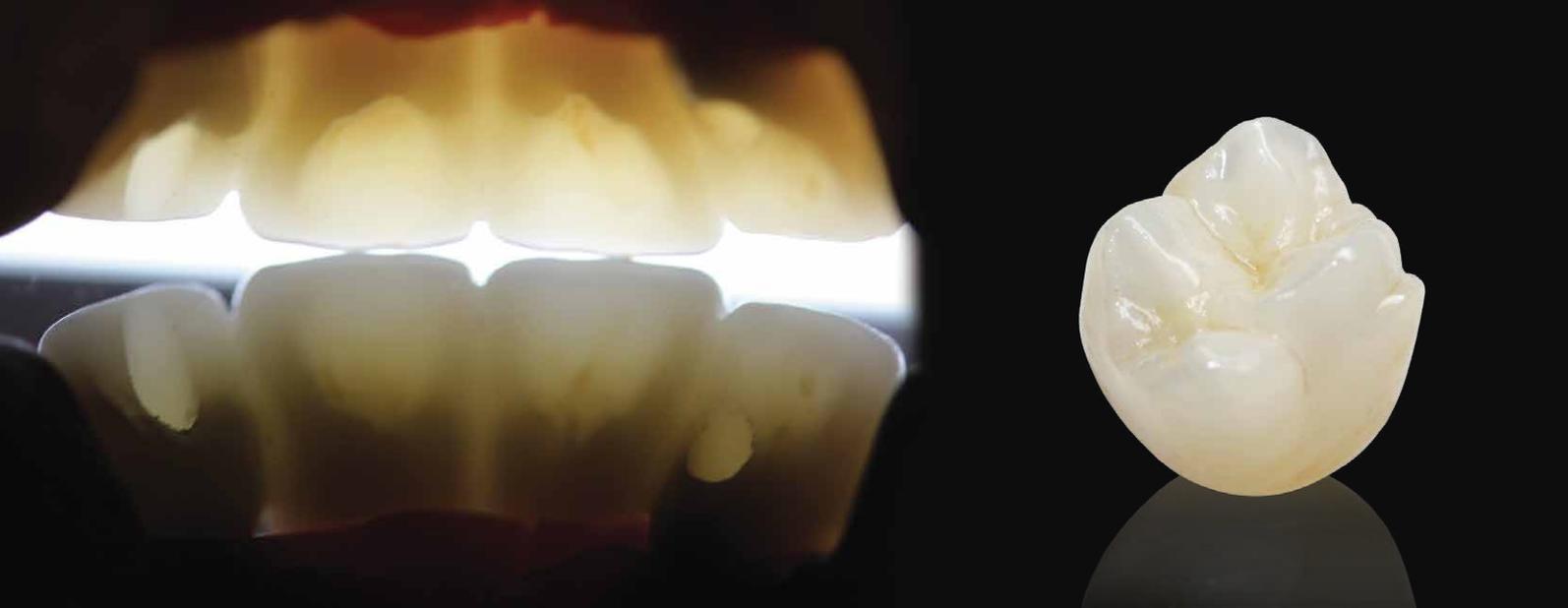
FULL CROWN



Recommended Preparation For Anterior Teeth



Recommended Preparation For Posterior Teeth



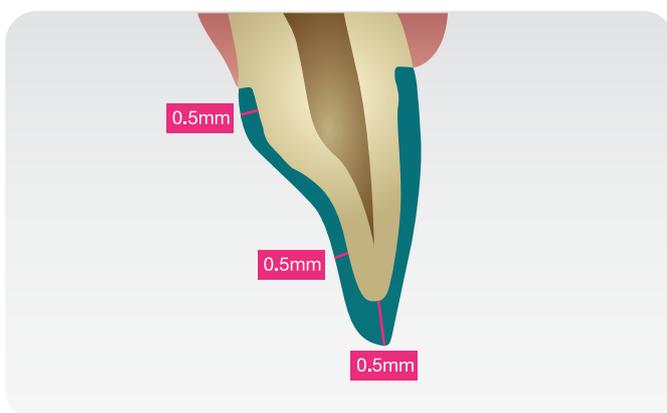
Opalite™ GENERATION II

Opalite™ Generation II is monolithic zirconia and requires much less preparation space than traditional crowns, and is far more aesthetic than traditional PFM restorations.

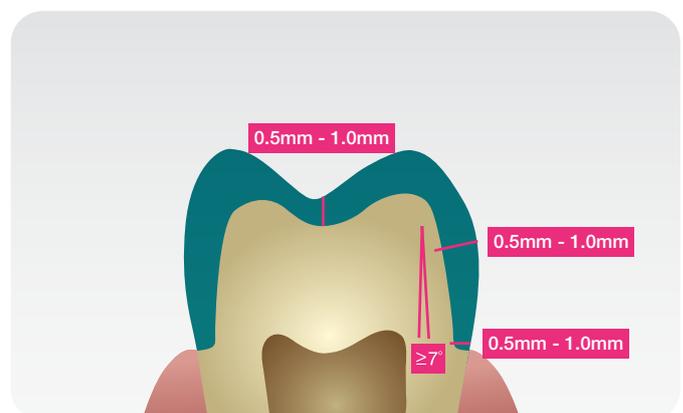
Every dentist has experienced challenging situations with bruxers and grinders. With an exceptional flexural strength of 1100MPa, Opalite™ restorations are virtually clinically unbreakable. Opalite™ all-zirconia crowns and bridges are designed digitally and milled from zirconia using CAD/CAM technology before being polished to a smooth finish with a similar lustre to a full gold crown for minimal abrasion.

Impression technique	Digital or Traditional
Material	Monolithic Translucent Zirconia
Indications	Full mouth, crowns, bridges, implants
Recommended use	Full mouth, crowns & bridges
Margins	Feather edge, chamfer or shoulder
Cementation	Conventional cementation
Etch	N/A
Recommended adhesive	3M ESPE RelyX™ Unicem 2
Turnaround time	5 lab days
Method of manufacture	Digitally designed and manufactured
Aesthetics	★★★★★
Shades / Colouring	No internal effects, standard shades
Strength	★★★★★
Add-on options	Fit to denture
Benefits	High durability extreme strength, metal-free, exceptional accuracy
Warranty	15 years
Type	Standard crown
Popularity	★★★★★
Strength	1200MPa

FULL CROWN



Recommended Preparation For Anterior Teeth



Recommended Preparation For Posterior Teeth



e.max veneers 11,21

e.max[®] Pressed

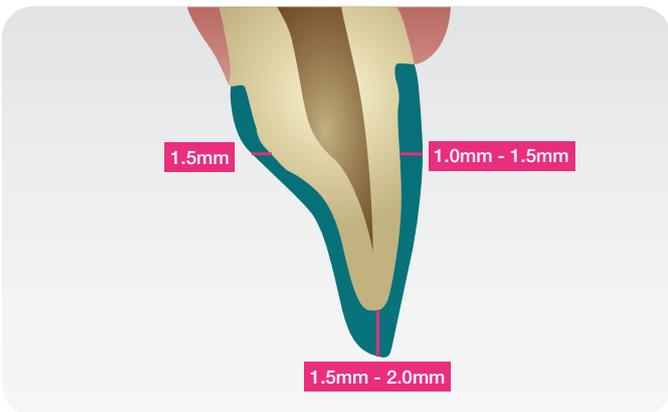


Using the Empress system as a technological basis, the e.max[®] system delivers strength and premium aesthetics.

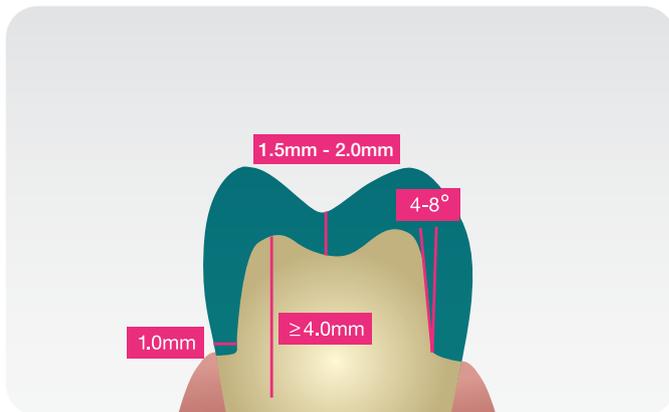
All e.max[®] restorations offer highly aesthetic solutions due to their natural-looking colour and optimal light transmission.

Impression technique	Digital or Traditional
Material	Ivoclar [™] e.max [®] lithium disilicate
Indications	Full mouth, crowns, inlays/onlays, veneers, 3/4 crowns
Recommended use	Full mouth, crowns, inlays/onlays, veneers, 3/4 crowns
Margins	Chamfer or shoulder
Cementation	Conventional cementation or adhesively bonded
Etch	Hydrofluoric acid
Recommended adhesive	3M ESPE RelyX [™] Ultimate
Turnaround time	5 lab days
Method of manufacture	Waxed and pressed by hand
Aesthetics	★★★★★
Shades / Colouring	Customised shading
Strength	★★★★★
Add-on options	N/A
Benefits	Premium aesthetics, metal-free
Warranty	1 year
Type	Premium restoration
Popularity	★★★★★
Strength	400±40MPa

FULL CROWN



Recommended Preparation For Anterior Teeth



Recommended Preparation For Posterior Teeth



e.max[®] CAD

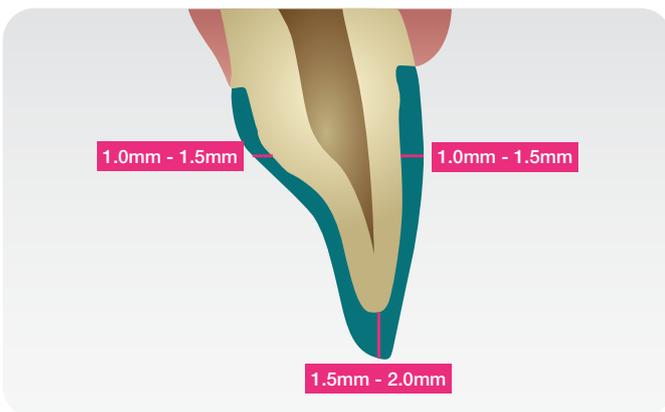


e.max[®] CAD utilises the same high-performance lithium disilicate ceramic material as traditional pressed e.max[®] CAD matching its aesthetic qualities.

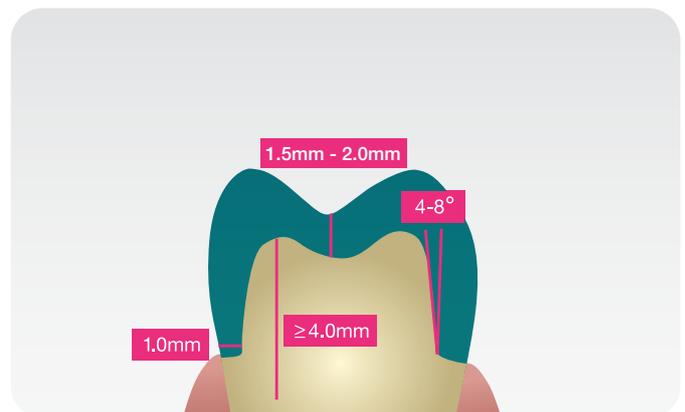
while also giving all the advantages of CAD/CAM manufacture including accurate fit and consistent quality. These single-unit crowns are milled by Core3dcentres, an Ivoclar Vivadent authorised milling centre. This innovative crown is 2.5 to 3 times stronger than layered porcelain crowns at 360 – 400 MPa. e.max[®] CAD is an ideal material for crowns as it exhibits aesthetic properties of both translucency and opalescence.

Impression technique	Digital or Traditional
Material	Ivoclar [™] e.max [®] lithium disilicate
Indications	Full mouth, crowns, inlays/onlays, veneers, 3/4 crowns
Recommended use	Full mouth, crowns, inlays/onlays, veneers, 3/4 crowns
Margins	Chamfer or shoulder
Cementation	Conventional cementation or adhesively bonded
Etch	Hydrofluoric acid
Recommended adhesive	3M ESPE RelyX [™] Ultimate
Turnaround time	5 lab days
Method of manufacture	Digitally designed and manufactured
Aesthetics	★★★★★
Shades / Colouring	Customised shading
Strength	★★★★★
Add-on options	N/A
Benefits	Premium aesthetics, excellent fit, metal-free
Warranty	5 years
Type	Premium crown
Popularity	★★★★★
Strength	360±60MPa

FULL CROWN



Recommended Preparation For Anterior Teeth



Recommended Preparation For Posterior Teeth



Layered Zirconia

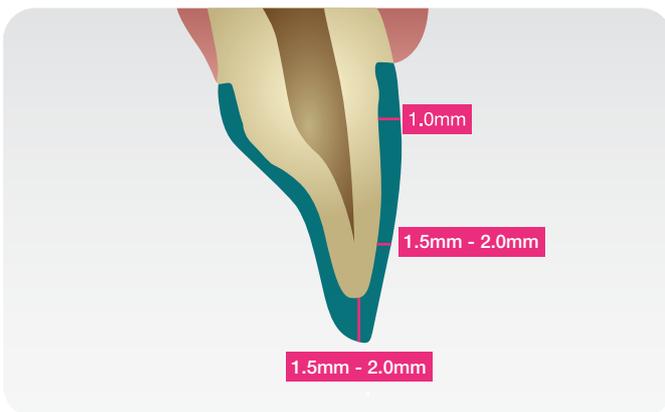


The layered zirconia crown is an aesthetically pleasing and cost-effective restoration.

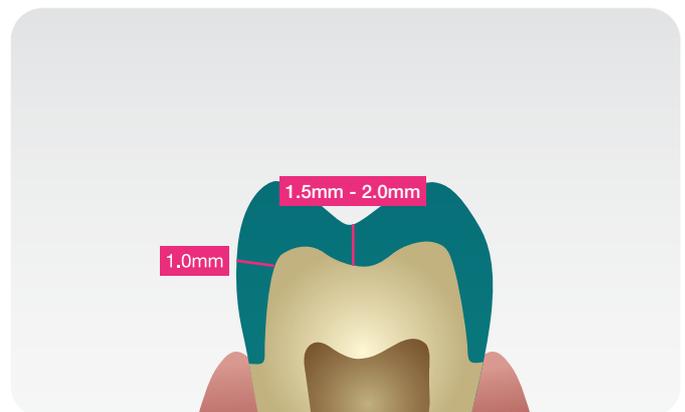
The zirconium oxide used is fully biocompatible and meets high aesthetic expectations due to its tooth-like colour. CAD/CAM manufactured for excellent fit and the material used is exceptionally strong - it can be used to make single copings and large-span bridges with up to 14 units as well as abutments and primary components.

Impression technique	Digital or Traditional
Material	Zirconia (layered) coping with porcelain overlay
Indications	Full mouth, crowns, bridges
Recommended use	Full mouth, crowns & bridges
Margins	Feather edge, chamfer or shoulder
Cementation	Conventional cementation
Etch	N/A
Recommended adhesive	Signum Zirconia bond
Turnaround time	5 lab days
Method of manufacture	Digitally designed & manufactured (Framework) & built up by hand
Aesthetics	★★★★★
Shades / Colouring	Internal effects, customised shading, multi-layered
Strength	★★★★★
Add-on options	Fit to denture, rests and ledges
Benefits	Good fit, metal-free
Warranty	8 years
Type	Standard crown
Popularity	★★★★★
Strength	90-120MPa

FULL CROWN



Recommended Preparation For Anterior Teeth



Recommended Preparation For Posterior Teeth



PFM

Race Dental is the market leader in producing porcelain fused to metal (PFM) restorations.

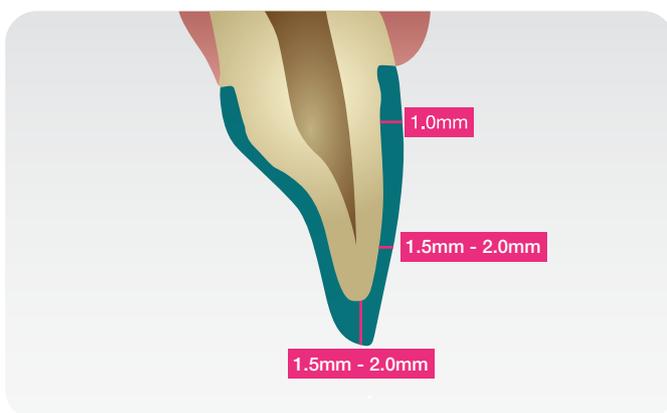
PFM crowns have been tried and tested for decades and offer strength, reliability, aesthetics, and good marginal fit. All PFM crowns use biocompatible alloys and the finest feldspathic porcelain systems to ensure attractive and natural aesthetics.

METAL FREE ALTERNATIVE:

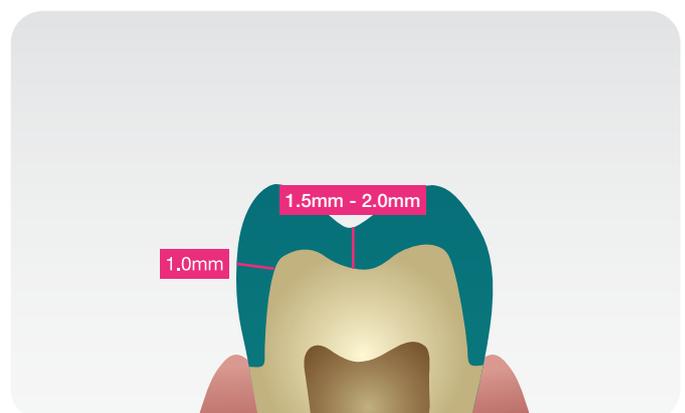
- Crystalite

Impression technique	Traditional
Material	Non-precious or precious alloy coping with porcelain overlay
Indications	Full mouth, crowns, bridges
Recommended use	Full mouth, crowns & bridges
Margins	Feather edge, chamfer or shoulder
Cementation	Conventional cementation
Etch	Sand blast
Recommended adhesive	3M ESPE RelyX™ Unicem 2
Turnaround time	5 lab days
Method of manufacture	Traditionally-cast & built up
Aesthetics	★★★★★
Shades / Colouring	No internal effects, standard shades
Strength	★★★★★
Add-on options	Fit to denture
Benefits	Traditional method choice of alloys
Warranty	6 years
Type	Standard crown
Popularity	★★★★★
Strength	90-120MPa

FULL CROWN



Recommended Preparation For Anterior Teeth



Recommended Preparation For Posterior Teeth



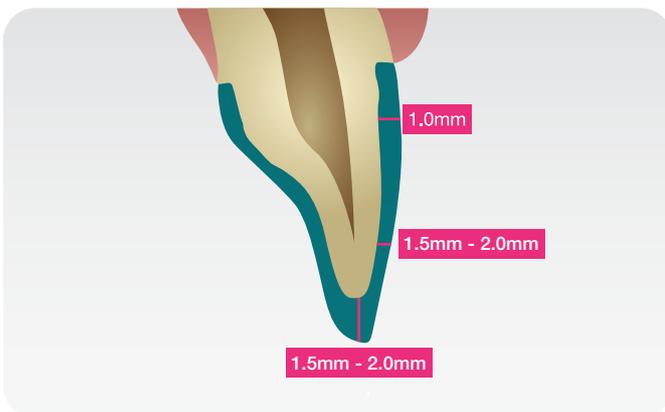
Full Gold Crown

Gold crowns set the standard for long term durability in posterior crowns.

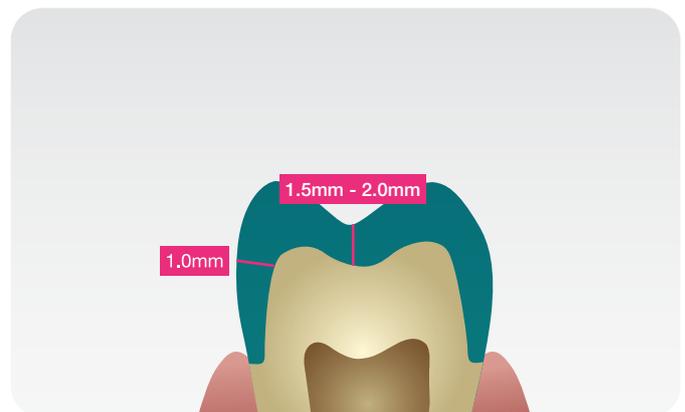
Full gold crowns are a long-lasting fixed restoration that is biocompatible and will not fracture. Race Dental carry stock of gold to make it easy for you to prescribe a full or 3/4 gold crown.

Impression technique	Traditional
Material	Non-precious (gold-coloured) or precious (gold) alloy CoCr (silver coloured)
Indications	Full mouth, crowns, bridges
Recommended use	Posterior teeth
Margins	Feather edge, chamfer or shoulder
Cementation	Conventional cementation
Etch	Sand blast
Recommended adhesive	Signum Zirconia bond
Turnaround time	5 lab days
Method of manufacture	Traditionally-cast
Aesthetics	★★★★★
Shades / Colouring	No internal effects, standard shades
Strength	★★★★★
Add-on options	Fit to denture
Benefits	Traditional method choice of alloys
Warranty	6 years
Type	Standard crown
Popularity	★★★★★
Strength	90-120MPa

FULL CROWN



Recommended Preparation For Anterior Teeth



Recommended Preparation For Posterior Teeth



Shade Taking With Digital Photography

Digital Photography has become a priceless tool in the dental industry. Its use can provide much more consistent results when trying to match shades, texture, and characteristics.

Digital photography provides information about labial characterisation, soft tissue blanching, gingival hue, glaze texture and internal characteristics such as mamelons and check lines. Any digital camera or smart phone can be used.

First decide which tooth you wish to match. If the 25 is being restored, it is best to photograph the 24 as it is the tooth that the crown should match. Choose the shade tab closest to the patient's tooth. Invert the shade tab and sit it edge to edge with the tooth to be matched. Ensure the patient's mouth is open to create a black background behind tooth and shade tab and take your first photo.



Notice the finish on the teeth which allows the technician to know what texture and glaze techniques to use. It also shows the labial characterisation in detail ensuring the light reflection will be matched with accuracy. Shape and contour will be designed from teeth on the model therefore not making it necessary to photograph any other teeth. A second and third photo with different shade tabs can help too.

Ensure the shade photos are taken prior to preparing the tooth to minimise syneresis.

Crown and Bridge

Premium Restorations



Crystalite™

e.max® CAD

Pressed e.max®

Zirconia (Layered)

Material

Monolithic Super Translucent Zirconia

Ivoclar™ e.max® lithium disilicate

Ivoclar™ e.max® lithium disilicate

Zirconia (layered) coping with porcelain overlay

Method of manufacture

Digitally designed and manufactured

Digitally designed and manufactured

Waxed & pressed by hand

Digitally designed & manufactured (Framework) & built up by hand

Aesthetics



Shades / colouring

No internal effects standard shades

Customised shading

Customised shading

Internal effects customised shading multi-layered

Strength



Add-on options

(fit to denture, attachments etc. Charges apply)

Fit to denture



Fit to denture, rests and ledges

Benefits

High durability extreme strength metal-free, exceptional accuracy

Premium aesthetics excellent fit metal-free

Premium aesthetics metal-free

Good fit metal free

Recommended use

Full mouth, single crowns

Full mouth, crowns, inlays/onlays, veneers, 3/4 crowns

Full mouth, crowns, inlays/onlays, veneers, 3/4 crowns

Full mouth, crowns & bridges

Warranty

15 years

5 years

1 year

8 years

Comparison Chart

Standard Restorations



Opalite™

Full Gold Crown

PFM

Material	Monolithic Translucent Zirconia	Non-precious (gold-coloured) or precious (gold) alloy CoCr (silver coloured)	Non-precious or precious alloy coping with porcelain overlay
Method of manufacture	Digitally designed and manufactured	Traditionally-cast	Traditionally-cast & built up
Aesthetics	★★★★★	★☆☆☆☆	★★★★★
Shades / colouring	No internal effects standard shades	Not required	No internal effects standard shades
Strength	★★★★★★	★★★★★★	★★★★★
Add-on options (fit to denture, attachments etc. Charges apply)	Fit to denture	✓	✓
Benefits	High durability extreme strength metal-free, exceptional accuracy	Exceptional strength	Traditional method choice of alloys
Recommended use	Full mouth, crown & bridges	Posterior teeth	Full mouth, crowns & bridges
Warranty	15 years	6 years	6 years



Implants

Race Dental provides a wide range of implant-supported restorations, fixed or removable crowns and bridges, over-dentures and full-arch restorations. We continuously strive to keep up to date on the latest techniques and components of all systems current in Australia. Race Dental has been able to support its customers with state of the art implant supported prosthetic work for many years.



Implant Restorative

Impression Technique: Digital or Traditional

Race Dental specialises in implant dentistry. Our specialist team is highly trained in all aspects of implant restorative manufacture and are dedicated in finding solutions to even the most challenging cases. Our expertise in this field has seen us work with some of the most respected Implant Surgeons, Maxillofacial Surgeons and Prosthodontists in the country and has allowed us to become one of the leading implant laboratories throughout Australia. The technical support from Race Dental will provide invaluable support when planning your more difficult cases and we like to ensure each case is looked at with a holistic approach to ensure the best possible outcomes for your patients.

We ensure all our restorations function correctly and maintain stability long term in the mouth. We focus on high end cosmetics and proper phonetics; and ensure correct soft tissue management for hygiene and aesthetic purposes.

We work with all implant brands currently available in Australia and we are happy to be involved with the case planning of each and every case.

Ankylos, Astra Tech, Avinent, Nobel Biocare, BioHorizons, Biomet 3i, Dentsply, Implant Direct, MIS, Neoss, Southern Dental Implants, Straumann, Dentium, Osstem, Thommen, Tekka and more...

Fixed Price Implant Solutions

General Restorative (Race Implants)



Crystalite™

- Screw Retained
- Cement Retained (Incl. Customised Titanium Abutment)
- Zirconia abutment incurs additional charge



Opalite™

- Screw Retained
- Cement Retained (Incl. Customised Titanium Abutment)
- Zirconia abutment incurs additional charge



PFM

- Screw Retained
- Cement Retained (Incl. Customised Titanium Alloy Abutment)
- Alloy Extra



Layered Zirconia

- Screw Retained
- Cement Retained (Incl. Customised Titanium Abutment)
- Zirconia abutment incurs additional charge

Includes

- Soft Tissue Mode
- Analog
- Titanium Base
- Clinical Screw

More solutions available on request

Contact us for more information



Fixed Price Implant Solutions

Full Arch Implant Supported Solutions (All-on-X)

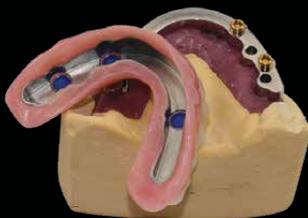
**Terms and conditions apply.



Laser Welded Titanium Ecobar Fixed Hybrid Denture



Milled Titanium Framework Hybrid Denture



Fixed / Removable Hybrid Denture

- Milled Bar with Locator Abutment
- Removable Locator Chrome
- Hybrid Denture



Translucent Zirconia Implant Bridge

Extras

Radiographic Guide

Implant Placement Guide

Diagnostic Set Up

Verification Jig

Implant Special Tray

Custom Shade

Customised Gum Contour

Chair side Consult (Case Planning incl.)

Alloy Semi Precous (Per Unit)

Precious (Per Gram)

Titanium



Full Arch Restorative and Bars

Impression Technique: Digital or Traditional

Race Dental has spent many years perfecting the art of full arch restorative reconstruction

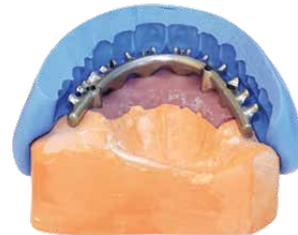
Full arch implant supported restorations are becoming increasingly popular due to the accuracy and predictability CAD / CAM solutions can provide. Race Dental is able to provide patients with the latest innovations in implantology through our latest in-house technology. We provide a wide range of full arch solutions including removable overdentures, fixed removable overdentures, fixed hybrid dentures and full arch fixed zirconia or porcelain bridges.

All of our solutions are designed and created with the latest CAD / CAM technology and are in turn manufactured using industrial milling and printing technologies. This innovation provides complete stress and distortion free results which are created when using traditional manufacturing techniques. Thanks to CAD / CAM milling techniques, frameworks are now stronger than ever and show no solder or laser welds, meaning corrosion and fracture hazards are no longer a factor.



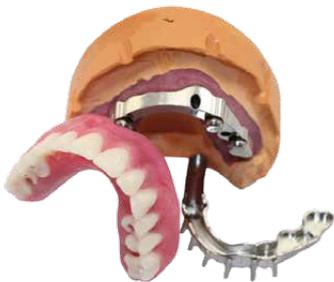
Removable Overdentures

All our removable overdentures are fabricated using retention abutments, premium teeth and high impact acrylic for added strength and aesthetics. They are an excellent solution for mandibular cases where there is sufficient alveolar ridge. They provide excellent retention for tissue-born prostheses.



Fixed Hybrid Dentures

Fixed hybrid dentures are most popular in the maxilla and provide outstanding aesthetics. They are fabricated using premium teeth, high impact acrylic for strength and aesthetics and come with all the relevant restorative hardware necessary for placement. The internal frameworks are milled from medical grade Titanium using industrial technologies.



Fixed Removable Overdentures

All our fixed removable overdentures are fabricated using retention abutments, premium teeth, high impact acrylic and precision milled implant bars. They are an outstanding solution for cases with heavy occlusal loads or minimal bone retention. They are an implant and tissue-born prosthesis which help to broaden occlusal forces across all implants.



Full Arch Fixed Bridges

All our full arch fixed bridges are manufactured using the latest CAD / CAM solutions and custom abutment technology. We specialise in high end aesthetics and focus on gnathology to ensure long term stability and function. These restorations are available with or without layered porcelain.

Acrylic

Race Dental's acrylic department has been servicing dentists since 1936. Acrylic work is the foundation of the company and what we do best! We accept all varieties of acrylic work and our large and dedicated team of technicians and supervisors are always available to assist you in providing well-fitting and aesthetically pleasing work.





Full Acrylic Dentures

Impression Technique: Traditional

Designed to replace dentition in an edentulous mouth. Dentures can be constructed in a combination of metal and acrylic, or purely out of the diverse acrylics. Now available in Vertex.

Materials

- Heraeus Paladent 20 heat cured acrylic
- Heraeus, Vita and Ivoclar teeth
- Cast metal: full palate, full mesh palate
- High impact acrylics
- Soft linings
- Gold inlays
- Vertex

Processes

- Cold cured
- Heat cured
- Injection moulded
- Pressure and heat packed
- Characterisation: rugae, labial buccal carving and tinting



Relines and Repairs

- ✓ Same day service for Sydney metropolitan areas
- ✓ Next day service if outside Sydney metropolitan areas





Partial Acrylic Dentures

Impression Technique: Digital or Traditional

Partial dentures are designed to replace missing dentition and prevent healthy dentition from migrating due to a loss of proximal or opposing teeth. The general objective with partial dentures is to prevent problems which might occur if teeth migrate out of their natural dimension and position. Various problems can arise due to migrating dentition, such as issues with occlusion, Temporomandibular Joint (TMJ) headaches, ear aches, or even difficulty moving the jaw due to extreme pain. These issues can sometimes be initially identified by a clicking or popping sound.

Generally, partial dentures have appropriately placed retaining clasps, which can be made of chrome, stainless steel or flexible clear/tooth coloured matched material for aesthetic purposes. Partial dentures can be constructed in a combination of metal and acrylic, or purely out of the diverse range of acrylics available.

When treating patients with sensitive mouths or other oral health considerations, flexible dentures may be found to be more tolerable since they mould to existing dentition



Repairs and Additions

- ✓ Same day service for Sydney metropolitan areas
- ✓ Next day service if outside Sydney metropolitan areas
- ✓ Laser welding
- ✓ Cast and laser weld additions
- ✓ Immediate additions
- ✓ Tooth and Clasp additions

Materials

- Heraeus Kulzer Acrylic
- Cast metal
- Mixed materials: Cast metal + Heraeus Kulzer Acrylic / Vertex / Valplast / Dental D
- High impact acrylics
- Flexible material base dentures
- Stainless steel clasping - 0.7, 0.8, 0.9, 1.0 mm
- Characterisation: rugae, labial buccal carving, stippling and colouring

Processes

- Cold cured
- Heat cured
- Injection moulded
- Pressure and heat packed
- Characterisation of dentures (rugae), labial buccal carving and colouring

Benefits

- Prevents tooth migration
- Aids chewing
- Prevents sagging of the cheeks and lips
- Restores speech

Flexible Dentures

Impression Technique: Digital or Traditional (Limited)

Thermo-plastics are a versatile material often prescribed for flexible removable partial dentures, as they are stronger, more flexible and reduce chair time. The invasive procedures and the cumbersome materials associated with rigid partials are eliminated and there are fewer steps in the treatment process because preparation of natural teeth is unnecessary.

As there is no metal frame, the fabrication and try-in processes are simplified. The choice of a thermo-plastic partial also avoids the use of metal, for higher patient satisfaction. Thermo-plastics are appropriate for a wide range of challenging cases due to their adaptability and the virtually invisible support which they provide.



Mouthguards

Impression Technique: Digital or Traditional

When playing contact sport of any kind - including hockey, rugby, soccer and boxing - a well-fitting mouthguard is crucial to protect teeth and jaw from injury. Most tooth injury occurs during sport and damage to teeth or gums can require expensive treatment for the rest of your life.

Race Dental have over 40 years experience in producing professionally fitted mouthguards. They consist of multiple layers of laminate to add strength and durability. Our custom-built mouthguards provide maximum protection and comfort causing minimal interference to speaking and breathing even under demanding conditions. Race Guards are tapered to avoid any gag reflex and are available in a light, medium, or heavy size depending on your requirements.

Patients Love Race Guard – 100% Customisable: Colours, Logos, Patterns.





Race Guard is 100% Australian made.



Mouthguards

Race Guards offer the following **benefits:**

- Protection of the lips, teeth and jaw from most collision-induced injury
- Minimal interference to speaking and breathing even under demanding conditions
- Multi-layered laminate for extra protection
- Custom fit offers good retention and comfort

About Race Guard

Race Guards are custom-made and professionally-fitted to ensure a high level of comfort and protection. They consist of multiple layers of laminate to add strength and durability.

Sizes Available

A range of mouthguard types are available to suit your required level of protection.

	Light	Medium	Heavy
Type of protection	Double-laminated for good all-round coverage	Double-laminated for good all-round coverage	Triple-laminated for stronger, smaller guards
Recommended For	 Juniors	 Majority of team sports, junior to senior	 High-impact contact sports, A-grade level
Name/Number Customer Printed	✓	✓	✓
Up To Two Individual Colours	✓	✓	✓
Thickness	4-6mm	4-7mm	4-8mm



Colour Combinations and Logo

Race Guards offer a comprehensive range of team colour combinations using a wide range of colours of materials which have been approved by the Therapeutic Goods Administration as being safe for use in the mouth. We can even print your team or sponsor logo on your mouthguard!

All mouthguards are printed with the wearer's name and contact number.

Plain Colours



Fluorescent Colours



Pearl Colours



Choose Up To 3 Colours



Choose Your Own Design**



*Please note:
Real colours may vary from printed colour above

**Team sponsor logos can also be printed on the mouthguard for an additional charge. 3 colour combination will also incur an additional charge.



Race Guard Partner Program

The Race Guard Partner Program provides FREE Patient Education Material and can list your practice on our website as a preferred dentist or prosthetist.

Why is patient education important?

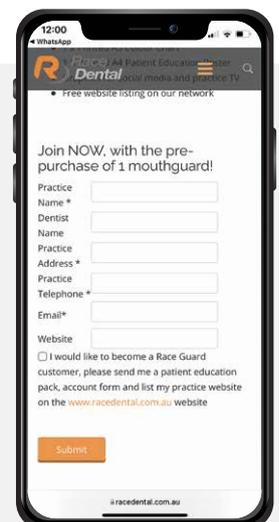
Many of your patients play sport but are unaware of the benefits of using a properly fitted, custom built Mouthguard made from a professionally taken dental impression. If your patients are unaware of the dental health and sporting performance benefits of a custom mouthguard, and that wearing a Race Guard can avoid costly and painful dental work after an injury to the face, patients will tend to opt for low cost 'boil and bite' Mouthguard which do not offer the same level of protection.

Free Patient Education Materials

- 1X Sample mouthguard
- 1X Brochure display
- 50X Patients brochures
- 1X A3 Colour Chart
- 1X A4 Patient Education Poster
- ✓ Graphics for social media and practice TV
- ✓ Free website listing on our network

Fill out the form online by scanning the QR Code to receive your **FREE Patient Education Pack**.

**Pre-purchase of 1 mouthguard is required*



Chrome Casting

Impression Technique: Digital or Traditional

Our highly-trained technicians are at the forefront of technology with regards to cast partial design. We use high tensile strength cobalt chromium, the finest ultra thin frameworks, and strong, flexible clasps that are stain-resistant, lightweight and have proven bio-compatibility. We can also provide masking for anterior pins and anterior backings to improve function and make the restoration more natural in colour.

Race Dental offers 5 lab-day turnaround times for chrome cast partials.



Tooth-Coloured / Clear Clasps

Impression Technique: Traditional or Digital

Race Dental delivers a broad variety of tooth-coloured, tissue-coloured and translucent clasps that exhibit incredible colour stability.

Tooth-coloured clasping makes a viable alternative to metal clasps. They possess high tensile and shock strength with excellent resiliency, allowing the clasp to flex over extreme undercuts while still providing a comfortable fit. They offer an array of tooth-coloured and tissue-coloured clasps that exhibit incredible colour stability. These shaded clasps may also be used on existing metal partial dentures for an aesthetically enhanced yet highly functional result. They have excellent elastic memory and can be used in situations where metals are contra-indicated.



Partial Upper / Lower

As dental hygiene awareness is improving, patients are keeping more teeth into their later years and may require a partial denture when a full mouth restoration isn't necessary. Teeth are set into acrylic and can be retained by clasps or implants, resulting in a lighter weight and more comfortable feel. This also adds strength and durability to the restoration.

Chrome Casting

A full metal palate is exceptionally thin and offers the lightest possible denture whilst being far stronger than full acrylic. A full metal palate can be more complex to relines. Please contact us to discuss individual cases.

New CAD / CAM Chrome Process

As a channel partner of Core3dcentres, Race Dental is working digitally to deliver a broader range of products and services. This is altering the way our laboratory functions in terms of the traditional manufacture of dental restorations, prosthetics and orthodontics.

Digital models allow us to deliver more accurate results and increases the flexibility and accuracy of chrome design. The prosthesis is digitally designed in our laboratory and then 'printed' by Core3dcentres – whereupon it is returned to be cast and finished.

Unilateral

A unilateral chrome casting is a super-lightweight partial denture that helps hide ugly and unnecessary metal clasping in the mouth. Unilateral partial dentures can be used with flexible acrylic for an exceptional finish.

Mesh Plate

Mesh palate full dentures and partial dentures provide the benefit of added strength with a cast mesh instead of full cast chrome. Mesh palates are covered with acrylic to give a more natural appearance.



Clear Aligners

Impression Technique: Digital or Traditional

Race Aligners is a treatment consisting of a series of TGA-approved plastic removable orthodontic appliances intended to slowly move your teeth to a final desirable position as an alternative to traditional braces. They are custom made to fit snugly over teeth.



Race Aligners is a series of orthodontic appliances manufactured from crystal clear and regulatory approved materials used to straighten teeth.

Through AI technology integration of the DentalMonitoring app and ScanBox pro, Race Aligners offers a complete solution to any orthodontic treatment.

100% Australian made clear aligners

Race Aligners is manufactured by the only local lab in the ANZ region operating an automated and digitised aligner production facility based in Sydney, Australia. The automated and digitised manufacturing process combined with remote monitoring allows production of world class quality solution at a competitive price point.

Guaranteed efficient chair time with DentalMonitoring

Using the AI technology of the DentalMonitoring app included in our packages, Race Dental's dedicated Orthodontic Team can assess, qualify, triage and monitor your patient's treatment remotely. The AI in the DentalMonitoring solution analyses the fit of the aligners, ensuring compliance and that the move from one aligner stage to the next is done at the right time.

Best value solution offered with flexible packages

This powerful technology is brought to you by Race Aligners at the most cost-effective and attractive prices. Select among our different packages made flexible by the number of aligner stages to suit your case.

Fast turnaround times

Expect fast turnaround times for production in-lab. Race Aligners is manufactured within 5 days upon receipt of approved design from clinician.

Different submissions and design options available

Send your cases using traditional or digital impressions and we'll take care of the treatment design.

The Process

1. Scan

Clinician creates an impression of the patient's teeth

2. Send

Impression is sent to Race Dental

Race Aligners packages include the DentalMonitoring app and a ScanBox pro to provide to your patients.

What is DentalMonitoring ?

DentalMonitoring is the revolutionary app that allows monitoring your patient's treatment between in-office appointments.



Patients scan and send images from anywhere

Patients use the proprietary ScanBox pro device plus their smartphone to take intraoral images from anywhere. Then they send them through the patient app.

The AI helps analyse the images and send instructions

DM's platform helps Race Dental's Orthodontic Team analyse, sort and crop the images. When the prescribed observation is detected, the customised protocol will be enabled and instructions sent.

Secure System

DentalMonitoring uses state of the art technology that protects data so your patient can be rest assured that their personal information is safe.

3. Design

Using the state-of-the-art aligner software, the series of treatment is designed

4. Review & Approve

Clinician reviews the treatment design

5. Manufacture

Approved design is sent for production

Enquire today and receive Race Aligners Marketing Pack valued at \$100 for **FREE**

Display these in your practice and educate your patients about the complete solutions Race Aligners is offering



What's included in the pack

- 50X Patient Education DL brochure
- 1X Display stand
- 2X A1 posters



Scan to enquire

Orthodontics

Impression Technique: Digital or Traditional

Race Dental provides a wide range of orthodontic appliances. We understand that orthodontics is a specialised area which requires technicians to have a greater understanding of how to make the appliances. We also realise that it is crucial to provide a quick and professional service for the busy Orthodontic clinician.



We Accept Digital Impressions for Orthodontic Work



Can't find precisely what you need?

We can cater to your special requirements. Contact us for more information.

Functional Appliances



Sved



Twin Block Basic
(No Screw)



Habit Appliance



Bionator

Retainers



Truain



Begg



Hawley



Spring Aligner 3-3



Spring Aligner 6-6

Expansion Appliances



3D



Fan Appliance



Bonded RME



Schwartz (1 Screw)

Sagittal

Sagittal / Schwartz

Fixed Appliances

SUPPLY & FIT BANDS 1 or 2 per appliance total / 3 or 4 per appliance total



Herbst



Lingual Arch 3 x 3



Lingual Arch 6 x 6



Quad Helix



Super Screw



Transpalatal Arch



RME-Bonded
(Incl. Screw)



RME Occlusal
Appliance



Space Maintainer
(No bands)



Indirect Bonding
(Not including brackets)

Splints



Hard Soft



Milled



CLEARsplint®



Occlusal Splint
(Heat Cured)



Printed (Soft)



Anterior Mini Splint
(AMS)

Models



Study Models
(Unpolished - Pair)



Congress Standard
(Pair)



Snoring Appliance

Sleep Apnoea Devices

Splint Comparison Chart

	Material	Method of Manufacture	Aesthetics	Strength	Benefits	Recommended use
Printed (Soft) 	KeySplint Soft	3D Printed	★★★★★	★★★★★	<ul style="list-style-type: none"> - Most comfortable - Digital design partially adjustable 	<ul style="list-style-type: none"> - Bruxism - TMJ disfunction - Hard splint intolerance
Milled 	High Impact PMMA	CNC Mille Disc	★★★★★	★★★★★	<ul style="list-style-type: none"> - Comfort - Flexible digital design (Flat plane, Michigan, others) adjustable 	<ul style="list-style-type: none"> - Bruxism - Long term wear - TMJ disfunction
CLEARsplint® 	CLEARsplint®	Heat Cured Process	★★★★★	★★★★★	<ul style="list-style-type: none"> - Strength (High) - Full Contact - Full Coverage 	<ul style="list-style-type: none"> - Bruxism - Long term wear - TMJ disfunction
Occlusal Splints 	Methyl Methacrylate	Heat Cured Process	★★★★★	★★★★★	<ul style="list-style-type: none"> - Strength (High) - Full contact - Full coverage 	<ul style="list-style-type: none"> - Bruxism - Long term wear - TMJ disfunction
Hard Soft 	Thermoplastic	Thermoform	★★★★★	★★★★★	<ul style="list-style-type: none"> - Comfort (Soft lining) - Full contact - Full coverage 	<ul style="list-style-type: none"> - Bruxism - Introduction to splint wearing - Restorative protection
Anterior Mini Splint (AMS) 	Methyl Methacrylate with Thermoplastic	Thermoform + Acrylic Platform	★★★★★	★★★★★	<ul style="list-style-type: none"> - Anterior only - Comfort - Easy to adjust lining 	<ul style="list-style-type: none"> - Headaches - Bruxism - TMJ disfunction

Warranty is included for all products

Training & Education

Training Facility

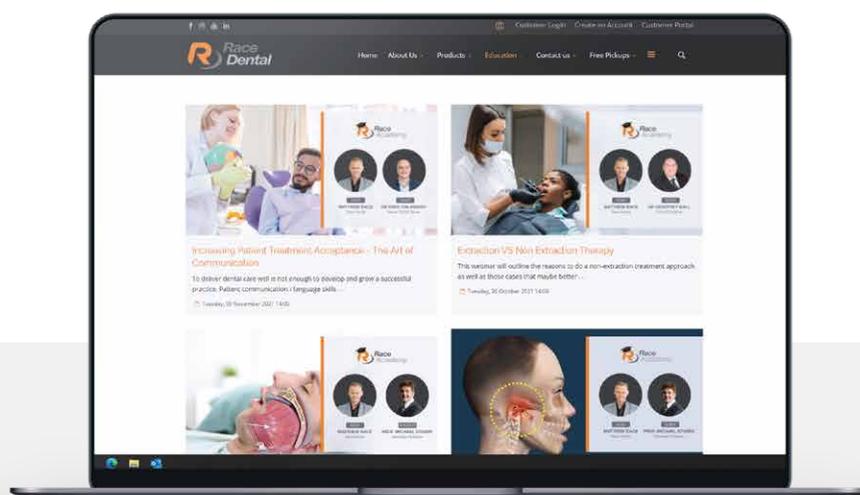


Race Dental offers a wide range of courses and webinars in and from our head office education centre under the banner Race aCADemy.

This is provided to our customers to add value for money and enhance our communication and working relationships.

We take every opportunity to share our knowledge with our customers. Our seminars and workshops allow the opportunity to receive presentations and hands-on technical demonstrations from key opinion leaders and technical experts in the industry.

Race Academy Webinar Series



Get free CPD points when you watch our webinars. Scan this code to get started.

Why Digitise Your Practice

- ✓ More than 70% of impressions received at Race Dental are from Intra Oral Scanners
- ✓ Digital impressions are proven to be more accurate than rubber impressions
- ✓ Scanners provide instant feedback on preparation design and dimensions
- ✓ Digital impressions allow any of the clinical team to take an impression
- ✓ Going digital adds more value to your bottom line

Race Dental is a reseller of both Medit & 3shape Trios Scanners. Enquire about our digital scanners by emailing sales@racedental.com.au or sales@racedental.co.nz

TRIOS is more than an impression



Get a three in one digital impression solution. An intraoral scanner for fast and easy 3D colour impression taking; an integrated intraoral camera, so there's no need to purchase one separately, and shade measurement while you scan, for more accurate and predictable results.



3Shape TRIOS 3 Basic

- ✓ Entry-level intraoral scanning solution
- ✓ Comes with core award-winning TRIOS scanning technology
- ✓ Allows you to scan and send cases
- ✓ Available in Wired only



3Shape TRIOS 3

- ✓ Excite patients with Smile Design and TRIOS Treatment Simulator
- ✓ Seamlessly integrate scanning, planning and designing with production
- ✓ Available in both Wired and Wireless



3 Shape TRIOS 4

- ✓ Enables preventive care with caries diagnostics aid and monitoring tools
- ✓ Comes with smart tips that heat faster
- ✓ Enable 30% more battery life
- ✓ Combined Wireless and Wired

Set up is available in both:



Pod



MOVE+

Return On Investment (ROI)
Calculator



MEDIT i500

Perfect software and hardware combination



Small Tip



Single Button Control



Easy to locate margin lines and undercuts as well as distinction between tooth structure and soft tissue



3D Full Color Streaming Capture



3D-in-motion Video Technology



280g Lightweight



MEDIT i700

Scanning Reimagined



Up to 2X Super Fast



245g Featherweight



UV-C LED Disinfection



180° Reversible Tip



Remote Control Button



Detachable Cable

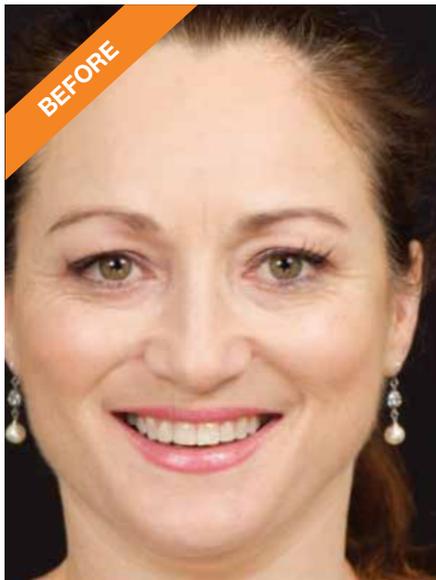
Specialist Services

Your DSD Specialist



Ensure all photos are straight and perpendicular to the patients face. We accept both digital and analogue impressions.

You may contact us at customersupport@racedental.com.au or customersupport@racedental.co.nz for information on how to send your files.



Full Face Retracted



Full Face Smile



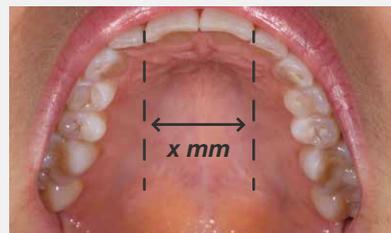
Profile Resting



Profile Smiling



12 O'clock View



Occlusal View, Model, or Digital Impression

Please provide distance in mm between distal of the centrals

Please send your photos for 2D designs.

For all enquires contact us at dsd@racedental.com.au or dsd@racedental.co.nz

Implant Placement Guides

Implant placement guides provide distinct advantages for both surgical and restorative outcomes. CAD/CAM surgical guides provide master drilling sleeves that accurately guide your twist drills into the exact MD, BL orientation and vertical position with some systems also providing depth stops.



Neuromuscular

- Highly trained technicians
- Detailed knowledge of TENS (Transcutaneous Electrical Nerve Stimulation) and Myobites
- Neuromuscular Orthotics Fixed and Removable
- Diagnostic workup and reporting
- Las Vegas Institute (LVI) Trained: Our Chief Operating Officer is a certified LVI Master Technician & Neuromuscular Trained Technician qualified in:



- | | |
|----------------------------|---|
| ✓ Core I | ✓ Practical Occlusion in the Progressive Practice (Occlusion I) |
| ✓ Core II | ✓ Mastering Neuromuscular Occlusion (Occlusion II) |
| ✓ LVI Smile Design | ✓ The Ultimate Solution for Complex, Comprehensive Cases |
| ✓ Neuromuscular Technician | ✓ Essentials for success with pressable ceramics |

Orthognathics

Digital

- Specialist technicians
- Scanning and operating services
- Complete digital workflows



Traditional

- Specialist technicians
- Model Desconstruction
- Orthognathic Splints



1 Splint Final Occlusion Only

2 Splints Final Occlusion + Centric Occlusion

3 Splints Final Occlusion + Centric Occlusion + Other





A true loyalty program you can count on

How does Race Rewards work?



Join Race Rewards for free



Earn a point for every dollar of every case you send



Redeem points for monthly bonus deals or rebates

How to earn Race Rewards points?

Spend

Earn a point for every dollar of every case you send

Loyalty

Choose Race and more than double your points

Diversity

Use more Race products and add more points

Digital

Go digital and DOUBLE your points

Payment

Keep your account current and earn bonus points



How to use your Race Rewards points

- ✓ Cash rebate
- ✓ Implant Packages
- ✓ Crown Packages
- ✓ Race Academy approved courses
- ✓ Monthly bonus deals & products

Eligibility

Any Customer that has a **Monthly Spend of \$1,000** automatically qualifies for Race Rewards. “Monthly Spend” means the average monthly spend over the preceding 12 months.

New customers, or customers that do not have a 12 month purchase history with Race Dental will be contacted if they spend \$1,000 or more in any one month and eligible to register into an agreed Tier until they have a 12 month purchase history.

Membership Tiers

The qualification for each of the tiers is set out in the following table. Both criteria must be met.

Criteria	SILVER	GOLD	PLATINUM	DIAMOND
Monthly Spend	\$1,000	\$2,000	\$4,000	\$8,000
Annual Points Earned	No minimum	75,000	150,000	300,000

CEO Club

In addition to the four primary tiers of Race Rewards, the CEO club level is by exclusive invitation only from the CEO. Each CEO Club member will have bespoke Rewards at the creation and discretion of the CEO

How points are earned

“Annual Points” means the points accrued in the 12 months period from 1 July to 30 June each year, prior to any Multiplier being applied. Annual Points will be based on a prorate average for new customers or customers that do not have a full year history from 1 July to 30 June.

“Multiplier” means the points multiplier applied to Platinum and Diamond customers. Platinum customers receive a 1.5 times multiplier on all points earned. Diamond customers receive a 2 times multiplier on all points earned.

Spend

One Race Reward Point is earned for each dollar spent on any Race Dental Product. There will be a monthly special that will earn additional points (e.g. Triple points on Opalite Crown Package)

** Rewards are calculated as the Crowns are used in the packages*

Loyalty

Race Reward Points are earned based on the loyalty of customers to Race Dental. Examples are as below:

- 1 If a customer sends more than **50% of their lab work** to Race Dental, then they will **earn bonus points equivalent to 50%** of the points they earn on Spend.
- 2 If a customer sends **ALL of their lab work** to Race Dental, then they will **earn bonus points equivalent to 150%** of the points they earn on Spend.

Loyalty measurement is based primarily on an honour system but subject to review and analysis.

Diversity

Race Dental customers are encouraged to use all of our departments. Using more than two departments in a month will earn bonus points on the points a customer earns on spend in that month:

3 Departments
25%
Bonus Points

4 Departments
50%
Bonus Points

5 Departments
100%
Bonus Points

Digital

Race Reward Points are earned if a customer uses an intraoral scanner – whether that scanner is purchased from Race Dental or not. To qualify a minimum of 4 jobs per month must be sent digitally.

Using an intraoral scanner will earn bonus points equivalent to 100% of the points that a customer earns on Spend.

Payment

Paying monthly account within our trading terms (30 days after month end) will earn bonus points equivalent to 50% of the points that a customer earns on Spend.

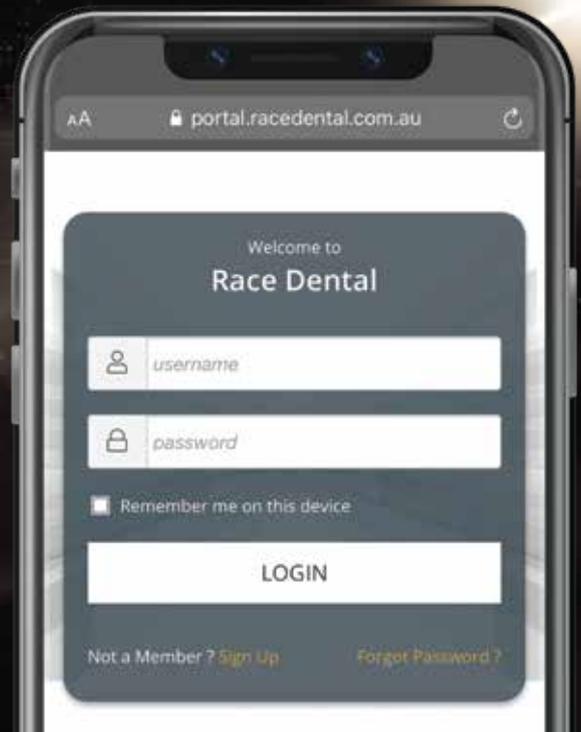
All customers are encouraged to use direct credit card payments so that they never miss out on these bonus points. Credit card fees are waived if a customer signs up for direct credit card payments.

Customer Portal

Your secure and compliant lab connection

The Race Dental Customer Portal is an exciting new way you can interact with us allowing you to submit cases online, message us clinical details in a secure compliant method, address all of your accounting needs, and much more.

- ✓ All communication and case information in one secure location
- ✓ Ensuring privacy and regulatory compliance
- ✓ No more manual lab forms, phone calls or emails



New features you will enjoy:



Submit a case

Our portal creates an individual identifier for every case submitted. Work begins as soon as the case arrives in lab.



Schedule a pick up

Your pickup can be booked when your case is submitted. No need to call or email.



Attach images directly to your case

You can attach any images needed directly to your case.



Track the progress of your case

All updates regarding your case will be displayed in the portal. Knowing what stage your case is up to will allow effective patient management.



Easily communicate clinical instructions

The portal lets you get in touch with our lab faster. Further instructions can be sent instantly to the lab.



Manage account details

Update any details in your account or change your password.



View your statements and invoices

All invoices and statements will now be in one easy location.



Make a payment

Your details are securely stored in our system making it easier for you to make a payment.



All the **resources** you need are just a scan  away

Download any of the helpful resources from our websites by simply scanning these codes.



Australia



New Zealand

100% Australian and New Zealand Made, Quality Lab Products

AUSTRALIA

Unit 6 / 40 Carrington Road Castle Hill NSW 2154 Australia
Phone: 1300 722 352 | Email: customersupport@racedental.com.au
www.racedental.com.au

NEW ZEALAND

20-24 Crummer Road, Grey Lynn, Auckland 1021, New Zealand
Phone: (09) 887 0327 | Email: customersupport@racedental.co.nz
www.racedental.co.nz

Digital Solutions and Full Service Dental Laboratory

Australia

Unit 6 / 40 Carrington Road
Castle Hill NSW 2154 Australia
Phone: 1300 722 352 / (02) 9490 2500
customersupport@racedental.com.au
www.racedental.com.au

New Zealand

20-24 Crummer Road, Grey Lynn,
Auckland 1021, New Zealand
Phone: (09) 887 0327
customersupport@racedental.co.nz
www.racedental.co.nz



Visit Our Website

Visit our website to learn more about Race Dental and our great services



Manage Your Account

You can view online billing, payment history and manage your account.