



**Klausz Dental
Laboratories Ltd.**

Working **harder and smarter** for your practice!

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"We Build Advanced Occlusal Concepts Into Everything We Do!"

We've grown into an O.I.C.S. Specialty Laboratory!

At **Klausz Dental Laboratories**, we are committed to providing our clients with a full range of services, restorations, and appliances to meet all aspects of clinical dentistry. To meet your expectations we have grown into an **Occlusal-Implant-Cosmetic-Sleep (O.I.C.S.) Specialty Laboratory** and we have solidified our position as a leader in these fields through various certifications.

With over 59 years of experience in the dental technology field, we build advanced occlusal concepts into every restoration and appliance we custom fabricate. It's with a greater understanding of how teeth, muscles and joints work together that we can create restorations that not only look lifelike and aesthetic, but can last longer and function better. Allow us to apply the knowledge we've accumulated into your next restoration or appliance. See why we've become an **O.I.C.S. Specialty Laboratory**.

Digital Dentistry at Klausz Dental Laboratories

We accept STL files from all of the most popular scanners



As technology is constantly changing, our laboratory is evolving to meet the changing needs of our clients. This is how we've been able to build and maintain relationships with our clients for over fifty-nine years.

We are proud to announce that we've become a Medit Registered Laboratory, Cadent iTero Partner Laboratory, Trios -3Shape Laboratory, and Cerec Affiliate Laboratory. And the list keeps growing!

We can accept all STL files that can be captured in your office.

Digital files sent to the lab allow us to create 3D printed models and fabricate your restorations and appliances to the highest quality possible with precision and accuracy.

We can accept all digital scans from clients who choose to go digital.

Aqualizer Temporary Splints & ACU-Flow Bite Registration Material An Unbeatable Combination



It's back again - Our
10th Annual Aqualizer
Sale is once again
being held in
November!

Acu-flow Bite Registration Material is the perfect companion product to use with the Aqualizer Bite Registration Technique, or any other Functional or Protrusive Bite Registration Technique.

We are proud to announce that you can purchase both Aqualizer Temporary Splints and ACU-flow Bite Registration material directly from us. By ordering from us, you can even save on the shipping charges, as we can deliver these products along with your next case.

With over 59 years of experience in the dental laboratory field, we've worked hard to earn your trust, and it's a trust we do not take lightly.

Every day we strive to exceed your expectations, and being able to provide you with more great products is just another way we're, "Working Harder and Smarter For Your Practice!"



Splint Therapy Just Got A Lot More Fun!

Our Thermoplastics are now available in a variety of colours, designed to be as individual as your patients are.

We are proud to be able to offer our clients a variety of options when it comes to splint therapy, and now all our Thermoplastic Splints can be tinted in 8 additional colours to complement our original crystal clear shade.



Clear Pink Blue Orange Yellow Violet Green Black Red

The Thermoplastic Splint is made from a unique thermo-plastic material and was developed for greater patient comfort. The advanced properties of this material allow it to flex when softened under warm water and thus conforms to the contours of the patient's teeth when inserted.

The Hard Occlusal/Thermoplastic Interior Splint is by far the most popular splint and was developed for those heavy bruxers and clenchers. Its unique combination of a tough impact resistant occlusal surface with its pliable tooth and tissue side offers your patients the best of both worlds: lasting durability and custom comfort.

Anterior Aesthetics by Klausz Dental Labs

Case Courtesy of Dr. Genoveva Caminschi, Mississauga, Ontario



"Working with Ron and his team at Klausz Dental Lab is a true pleasure. Having someone in the laboratory who I can discuss cases with is very important to me. It enables me to provide options to my patients with confidence, because I know that the final results will be predictable, meeting my expectations and my patient's desires."

- Dr. Genoveva Caminschi, Mississauga



Before



After



Final

An 82-year-old patient presented with worn, fractured, discoloured teeth and an uneven smile that left him embarrassed to smile. Following a comprehensive examination, a diagnostic wax-up and chairside mock-up helped the patient visualize the proposed outcome and confidently proceed with treatment.

Full-contour zirconia crowns were placed on the maxillary teeth (14-25) and mandibular teeth (31-44), providing the ideal combination of strength, function, and natural aesthetics. Digital impressions and meticulous treatment planning ensured precise restorations, while final occlusal equilibration promoted long-term stability.

The result was a dramatic smile transformation that restored function, enhanced facial aesthetics, and most importantly, renewed the patient's confidence. This case highlights the value of close collaboration between clinician and laboratory in achieving predictable, exceptional results.

The patient was thrilled with the final result.

How to Increase the Bond Strength of Zirconia Based Restorations

The use of zirconia based dental restorations has increased in recent years due to their superior aesthetic appearance and metal-free structure. The clinical success of fixed ceramic restorations seems to be strongly dependent on the cementation procedure. Zirconia based restorations can be bonded to teeth structures by both conventional and resin cements; however, dual cure resin cements are preferred because they have the advantages of marginal seal, good retention, and improvement of fracture resistance of ceramic materials.

Zirconia based restorations cannot be acid etched due to their lack of silica and glass, so sandblasting is the preferred surface-roughening method.

Here are some suggested methods to treat zirconia based restorations prior to bonding to improve restoration retention.

Method 1: If Sandblasting (Micro-Etching) Is available

Step 1: Sandblasted with 50 μm Al_2O_3 particles from a distance of 10 mm perpendicular to the specimen surface at a pressure of 2.5 bar for 15 s.

Step 2: Coat zirconia surface with Z-PRIME Plus (Bisco Canada 1-800-667-8811) or Monobond Plus (Ivoclar Vivadent Canada 1-800-263-8182) and allowed to air dry

Step 3: Cement with Preferred Dual Cure Resin Cement

Method 2: If Sandblasting (Micro-Etching) Is Not available

Step 1: Clean zirconia surface with ZirClean Restoration Cleaner (Bisco Canada 1-800-667-8811) or Ivoclean (Ivoclar Vivadent Canada 1-800-263-8182)

Step 2: Coat zirconia surface with Z-PRIME Plus (Bisco Canada 1-800-667-8811) or Monobond Plus (Ivoclar Vivadent Canada 1-800-263-8182) and allowed to air dry

Step 3: Cement with Preferred Dual Cure Resin Cement

Helping our clients achieve the very best clinical outcomes, is just another way we are,
"Working Harder and Smarter for your Practice!"



We are Continuously Updating Our Website to Serve You Better

Your portal to all that's new and exciting in dental technology is always available at your fingertips

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