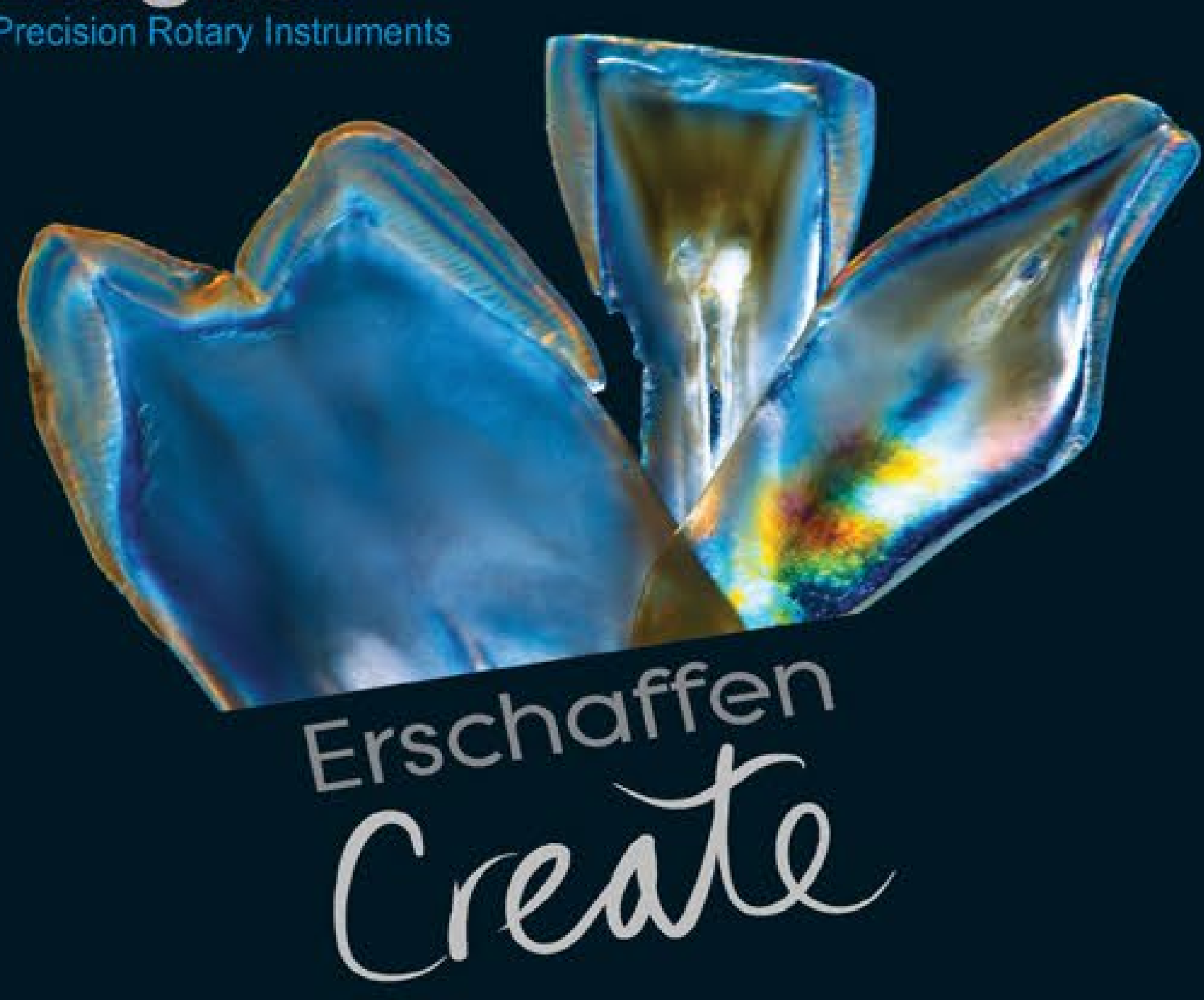
Wagner
Precision Rotary Instruments



Create

It is what the dental technologist does each day. It is a passion, a calling, a blend of technical knowledge with amazing artistry. It's a sharing of techniques and ideas with colleagues, and the use of rotary instruments is an integral part of that creative process. We strive to support that ongoing passion and artistry by working closely with dental technologists to develop new, innovative instruments.

With the advent of zirconia and lithium disilicate restorations, we realized that new instruments would be required to contour, shape and polish these harder materials. Over the past several years we have developed and continue to develop a unique and innovative line of instruments that allows ceramists to more effectively work with these harder materials. Our goal is to provide the finest instruments, expert knowledge and guidance required to support your business and to help your profits grow.

Personal Preference Guarantee

We understand that every ceramist has a personal preference for what works best. In keeping with our commitment to satisfaction and building long term relationships, we offer a personal preference guarantee. If for any reason you are not satisfied with the performance of one of our instruments, simply return it for a full refund within 3 months of invoice date. We'll even pay for the return shipping! So go ahead and try our instruments at no risk.

Whoops!–I Dropped My Rotary Instrument And Broke It!

It's not a good feeling when you drop a rotary instrument on the floor and then run your chair over it while you are looking for it. But, we have you covered. Just give us a call and we will replace it for you within a year of the purchase date, at no charge.

Thank you for considering using our rotary instruments.

Larry Powell
Managing Director
Wagner Precision Rotary Instruments

MADE IN GERMANY

cover photo by dentalimages.org
Bill Marais | Eugene Royzengurt

What would you like to Contour?

Pre Sintered Zirconia
GS Green State Contour™ System 6

Pre Sintered Lithium Disilicate
SRS™ Sprue Removal System 4

Sintered Zirconia
Sintered Lithium Disilicate
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photo Peter Pizzi

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Design & illustrations by Lisa Braun
lisa-powell-braun.com

Product photography by John Robert Photography

GS Green State Contour System

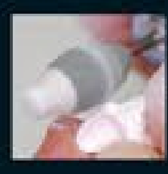
Mastering Green State Zirconia

The GS Green State Contour™ System provides a variety of instruments that offer a safe and efficient way to remove sprue connectors and contour your pre sintered zirconia restorations.

GSKIT2

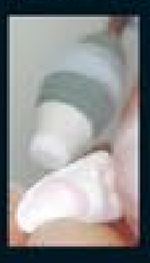
Sprue Connector Removal
A Safe 2 Step Process

After preliminary sprue/connector reduction is completed using our B501 silicone wheel, the technician should make final adjustments with the GS Contour 2 Step instrument GS100. This instrument should be used under loupes or a microscope at the very last adjustment point.



Step 1
The larger gray segment of this unique instrument quickly reduces the larger final mass (1- 2mm) of the connector with minimal risk of damage to the green state zirconia.

Step 2
The ultra fine white tip then gently removes and smoothes the final portion of any excess material remaining at the connector/restoration junction.



Anatomical Adjustments
Various anatomical adjustments can be made by using any of the ZHP diamonds or GS Green State Contour™ System instruments. You will find that making adjustments on your pre sintered restorations are simple and will save time.

ZHP Diamonds
Our 6 ZHP hand piece diamonds have a unique diamond shape and particle size. They provide a safe, gentle way to make subtle anatomical adjustments.

GS Green State Contour™ System

Our GS Green State Contour ™ System instruments will allow you to gently contour your pre sintered restorations. The instruments are available in 5 shapes. The GS104 Knife Edge is particularly well suited for opening and contouring interproximal areas without chipping.

The GS Contour Diamond Blade

Our diamond coated blade was designed to open and contour interproximal areas. The blade can gently access tight areas without causing any damage. Blades are available in fine and ultra fine

GSBK Diamond Blade Kit
1 Handle
5 Blades Ultra Fine
5 Blades Fine

GS Green State Contour System

You Gotta Keep It Separated

Aesthetics in dental technology is all about detail; whether it's finessing a line angle,sharpening a cusp tip, or balancing symmetry with natural asymmetry. One of these often forgotten details, I believe, is interproximal separation of multi unit bridges. Proper separation with regard to function and aesthetics is essential. The correct balancing of shadow and reflection will bring a multi unit case to life with a natural, lifelike appearance.

Yes, you might think this is obvious dental technology 101, but you would be surprised by some larger cases I've seen with units that just seem to "run together." I've seen this very same issue with many of the new zirconia hybrid bridges. Even the smallest burs from the most advanced milling machines do not have the ability to get in between those hard to reach places as much as we all would like. It's not enough to simply let this go… it needs to be fixed before you sinter the case. Trying to open and create natural embrasures after sintering has taken place is too difficult and will most likely cause micro fractures in your zirconia.

By utilizing my simple technique you will save time, and eliminate the potential of creating micro fractures in your restorations.

Lucas T. Lammott, DTG

M31 DENTAL STUDIO

fig. 1

The extremely flexible, super thin, knife edged instrument (GS 104), is perfect for opening up interproximals and embrasures without chipping or gouging your cutback, while being able to round your line angles and keep a natural contour.

fig. 2

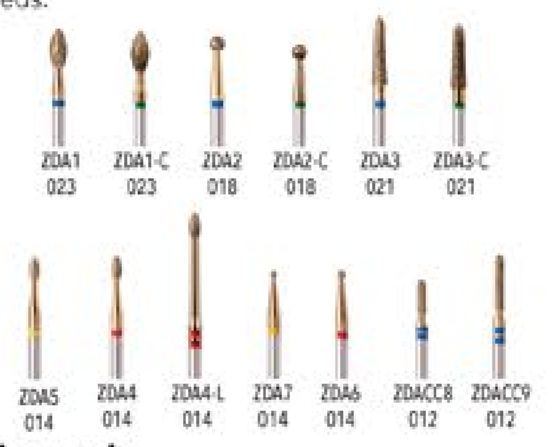
I use the diamond coated blade (GSBKIT), with a light sawing/scraping motion, that allows me to take the separation deeper and finer. This instrument has become absolutely essential in my small yet effective arsenal of zirconia instruments.

fig. 3

Your zirconia is now ready for sintering. Remember, the objective for green state contouring is to reduce the number of adjustments and contour corrections often made in the sintered state. This will result in a much stronger, long lasting restoration for the patient, and less chance of you needing to remake the restoration.

Friction Grip Diamonds
For Zirconia & Lithium Disilicate Restorations

Our ZR FG diamonds have been layered with uniquely shaped particles that make them highly effective and safe to use with your all–ceramic restorations. Only minimal hand pressure is required to obtain maximum results. Our FG diamonds are long lasting, do not leave black marks, and are available in a variety of shapes and grits. Our ZR FG diamonds should always be used with irrigation to prevent heat transfer that can create micro fractures in your restorations. We can also produce custom shapes in a variety of grits to meet your specific needs.



ZRHP Diamonds
For All Ceramic Restorations

Our ZR Hand Piece diamonds provide a safe alternative to using FG diamonds when irrigation is not available. They are the perfect solution for final, minor contouring of all ceramic restorations.

ZHRP KIT1

Instruments–Overview & Usage Guidance

When it comes to chairside adjusting or in lab final adjustments, every case is treated differently, as each restoration is in fact different in size, shape, and what and how much material needs to be removed/adjusted. There is also personal preference for what instruments work best. Our guide should be helpful in determining when to use each instrument.

When A Greater Amount Of Restorative Material Needs To Be Removed

When a greater amount of zirconia or lithium disilicate needs to be removed from the restoration, it is recommended that a Diacool™ is utilized first. Diacools will safely and effortlessly remove material. If the restoration is wetted slightly, the Diacool™ will be slightly more aggressive. Diacools, like our other instruments, will stay cool and will not introduce micro fractures into the restoration. Diacools are for lab use only.

After Using A Diacool™ OR When A Smaller Amount Of Restorative Material Needs To Be Removed

After a Diacool™ is utilized or if only a minor amount of material needs to be removed, the "Berry" instruments are recommended. The Berrys are available for both lab use and chair side use. Berry instruments designed for lab use begin with the prefix "B." Berry instruments designed for chairside use begin with the prefix "D." Lab instruments marked with a "B," must never be used intraorally. The Berry instruments are comprised of 4 different grits. Each Berry instrument is available for both lab use "B" Prefix and "D" chairside use. Instruments marked with a "B" prefix may not be used intraorally, and instruments with a "D" prefix cannot be used in the lab environment.

UltraBerry™ Coarse Plus **RedBerry**™ Coarse **BlueBerry**™ Medium **GoldenBerry**™ Fine/Super High Shine

Each of these instruments is industry unique. Each will reduce the restorative material as needed, but they also leave a smooth pre polish finish. This is like accomplishing 2 steps in 1. This smoother surface finish is particularly helpful in the margin areas where at times it can be difficult to control placement of the stains. By eliminating the scratches that other instruments leave, the capillary effect is eliminated, thereby keeping the stain in the area it was applied to.

Personal Preference Sequence For Berrys

Ceramists and dentists have their own preferred method for contouring, shaping and making final adjustments. There is really no correct method to follow, only our basic guidelines. Ceramists and dentists should feel free to use the instruments according to their own personal preferences. However, as a general guide, here are some basic suggestions.

Handpiece Instruments–In The Lab

We suggest using a Diacool™, (when a greater amount of material needs to be removed) followed by an UltraBerry™, RedBerry™, BlueBerry™ and GoldenBerry™.

Please note that most ceramists prefer the RedBerry™ for contouring zirconia and the BlueBerry™ for contouring lithium disilicate.

Friction Grip Diamonds–Chairside & In the Lab

ZDA friction grip diamonds are the shapes that dentists seem to prefer. The ZD friction grip diamonds are the shapes that cera-mists seem to prefer. However, it is possible to use either type in either situation. The classifications of "ZD" and "ZDA"are for general guidance only. ZDA diamonds 1,2,3,4,5,6,7, are for making adjustments. The ZDCC8 and ZDCC9 are for zirconia or lithium disilicate removal.

Please always use a hand piece with irrigation; this greatly extends diamond life and helps prevent micro fractures from occurring.

The RA Latch Berrys

The RA latch Berrys are available in a variety of shapes including cups, large points, small points, knife edge. These will smooth over adjusted restorations just prior to insertion. Usage follows the same recommendations as for the HP variety used in the lab. Usually dentists begin with a RedBerry point or cup, followed by a BlueBerry point or cup. The final step is high shine polishing. This is accomplished by using the GoldenBerry large point, small point, cup or knife edge instruments.

Extending Instrument Life

You can maximize instrument usage by allowing the instrument to do the work. Be careful not to use heavy handed pressure. Follow recommendations for maximum RPM speed, usually 8,000 rpm or less. Higher usage speeds will significantly reduce instrument life and transfer heat to the restoration. Only use friction grip diamonds with a hand piece that has irrigation. The water spray keeps the diamond particles from burning up and helps to eliminate micro fractures in your restoration. Intermittently dipping the restoration in water may create thermal shock; hot, to cold, to hot. Therefore this technique is also not recommended.