

match *Maker*

Ceramic System

Perfect shades across the complete ceramic range



Standard metal ceramic build-ups

Low fusing applications

Pressed ceramic crowns, veneers, inlays and onlays

Press over metal and zirconia techniques

Aluminium oxide and zirconia frameworks



THE QUEEN'S AWARDS
FOR ENTERPRISE
2004

Schottlander innovation



To traditional metal ceramic is now added the options of pressed ceramic, press over metal and all ceramic including press over zirconia - a choice for every clinical situation.

However, this choice has brought it's own problems. Combining the systems together in the mouth and still getting a perfect shade match is just one.

The beauty of Matchmaker is that, because it is available in the whole range of product types and uses the same intrinsic pigments, a unique ease of colour matching is achieved.

It is not just beauty and, indeed, durability that are important. All over the world the technician is being expected to produce the highest quality of work whilst taking less time and at lower cost. With the Matchmaker range you can now achieve this just by using opaque, dentine and enamel, hence our statement "Perfect shades straight from the bottle".

Whether it be the innovative Matchmaker MC T-Dentines, the Matchmaker PRESS and Zr PRESS Pellets or the ancillary products within the Matchmaker Aluminium Oxide and Zirconia ceramic layering products, with Matchmaker you can achieve more - quicker, easier and more reliably.

Schottlander innovation has indeed built on the Matchmaker reputation, trusted by dentists and laboratories alike for over twenty years, to provide solutions to these challenges with a range of ceramic products for each application.

Schottlander, winner of Queen's Awards in both 2000 and 2004 puts innovation to work to produce products that help you provide better dentistry to patients.

. perfect shades straight from the bottle



A single simplified ceramic



Matchmaker is a single simplified ceramic system designed to meet the demands of modern dentistry, providing production work through to state of the art, in metal ceramic and all-ceramic systems, crowns, bridges, inlays, onlays and veneers and the full range of sub strata.

Matchmaker is manufactured using the finest of natural minerals, refined and blended to a ceramic that performs like no other. A fine grain ceramic that is easy to handle, for the novice it is forgiving and for the expert, it is ultimately controllable.

Internal translucency

Matchmaker brings internal translucency and vitality to every type of ceramic work, whether it be a crown, bridge, inlay, onlay or veneer.

Perfect shades avoiding complex layering

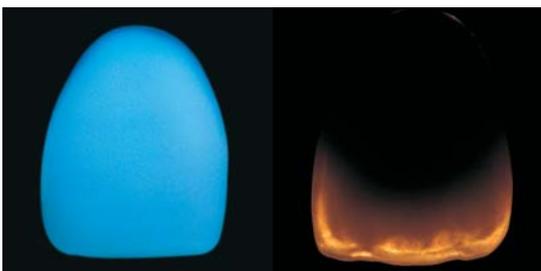
Matchmaker simplifies perfect shade matching across the whole ceramic range. Whatever the ceramic system the shade is spot on first time without complex layering.

Insufficient space no problem

With metal ceramic, getting the desired aesthetics can be a problem when insufficient space can be allowed. Matchmaker Enhancers provide the perfect solution. These innovative powders have high chroma and fluorescence with an internal translucency that gives the appearance of depth, even when the total metal and ceramic thickness is only 0.8mm.

Difficult aesthetic cases

With difficult aesthetic cases Matchmaker also has the solution, with a comprehensive range of additional shades, modifiers and stains. The Matchmaker System combines simplicity for the standard cases with an endless range of possibilities for the more complex ones.



. perfect shades straight from the bottle

beautiful smiles



Beautiful smiles and warm laughter have the potential to change patient's lives. Patients increasingly are coming to appreciate this and demand ever higher standards. But not every clinical case has the same degree of complexity and for most situations the ceramist needs a system that enables beautiful work to be carried out quickly and simply – as we put it “Perfect shades straight from the bottle”.

But for difficult aesthetic cases a more sophisticated layering system is required, with Matchmaker MC Metal Ceramic you get the choice of both in one system.

Matchmaker Living Stains

Traditional stains are opaque and do not allow the light to pass through. Matchmaker Living Stains are both translucent and fluorescent and can be applied both internally and externally. Adding yet another dimension to the incredible Matchmaker MC System.

Matchmaker MC Physical Properties

1st Dentine Firing:	920°C
Range of Shades:	A1 - D4
Bleach Shades:	Yes
Dentine CTE after 2 & 4 firings 25°C to 500°C 10 ⁻⁶ K ⁻¹ :	13.3, 13.5
Glass Transition Temperature:	590°C
Alloy Compatibility CTE between:	13.9 to 15.1 10 ⁻⁶ K ⁻¹
Alloy Compatibility Types:	High & Low Gold, Silver Palladium, Non-precious
CE Marked:	Yes
EN ISO 9693:2000	Yes

. perfect shades straight from the bottle



MC



Perfect shades avoiding complex layering

Now you can save time whilst delivering perfect shades by using Matchmaker Simplified (minimal cut-back) Technique. Using the innovative Matchmaker MC T-Dentine powders that are internally translucent, incredibly vital results are achieved with significant savings in time.

Propaque Paste Opaque saves time

Propaque Paste Opaque, supplied pre-mixed in a convenient syringe is the fastest way of applying opaque. It has very fine particle size and it's ease of application results in improved metal coverage, reduced shrinkage and higher opacity, even when applied thinly. With Propaque there is no mixing or stirring and you get the same consistency every time.

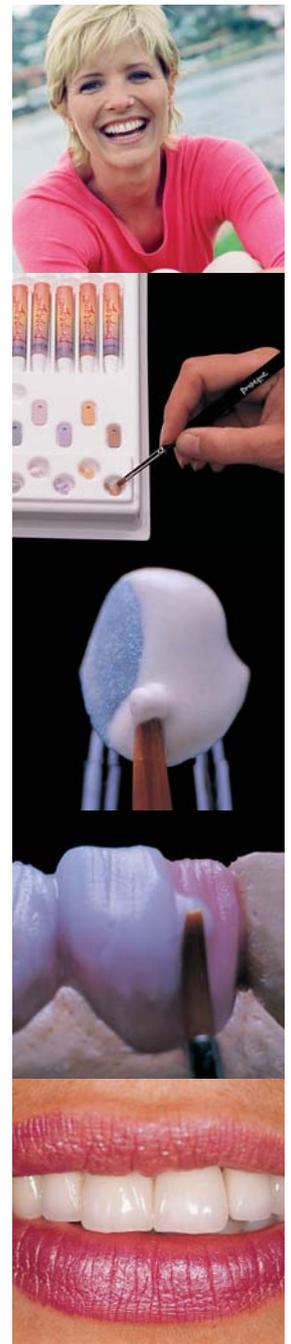
Dealing with insufficient space

Insufficient space always creates a potential aesthetic problem and Matchmaker MC Enhancers provide the perfect solution. These innovative powders are laid down in a thin layer under the dentine and are fired with it. They are high in chroma and fluorescence with an internal translucency that gives the appearance of depth, even when the total metal and ceramic thickness is only 0.8mm. And being matched to all sixteen additional shades plus bleach (HBO) they give perfect shades straight from the bottle, so avoiding the need for complex layering.

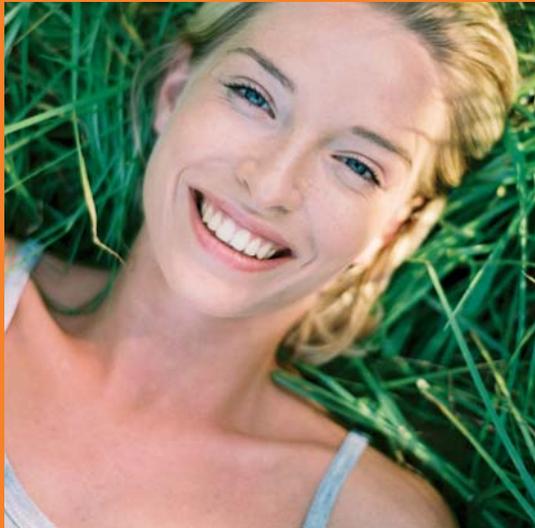
Multi-layering techniques

Matchmaker MC offers freedom for the true ceramic artist and a multi-layering technique for situations when the clinical appearance in the mouth is difficult to match. A colour palette as wide as you can see.

Apply the chosen shade of Propaque together with Dentines, Enamels and Enhancers as above. The palette includes a full range of powders to choose from whether it be Colour Translucents, Fluorescent Neutral, Mamelons, Occlusals, Opacious Dentines, Master Modifiers, Gingival Shades or Opalescent Enamels. Whatever your eye can see is available from the Matchmaker multi-layering techniques.



imagine a smile



Imagine a smile with restorations that are strong and durable but without needing a supporting metal coping. Imagine that the system gives beautiful results of amazing life and vitality. Imagine a system that is fast to use and economical in production. Imagine Matchmaker PRESS... the pressable ceramic system with a range of possibilities from high volume Press and Stain to Press and Incisal Edge to the full Layering Crown technique using Matchmaker LF Low Fusing Ceramic. The choice is yours, the system is Matchmaker.

Matchmaker PRESS is made from a special glass and leucite material and contains pigments and fluorescers which mimic the optical properties of the natural tooth structure in different lighting situations. This special matrix is also less abrasive to the opposing dentition than traditional feldspathic formula.

Matchmaker PRESS Physical Properties

Pressing Temperature:	920°C
Range of Shades:	A1 - D4, plus wide range for applications including occlusals, veneers etc
Pellet Sizes & Types:	All types 2g Transluents 2 & 5g
Bleach Shades:	Yes
Dentine CTE 25°C to 500°C 10 ⁻⁶ K ⁻¹ :	12.60
Glass Transition Temperature:	580°C
Alloy Compatibility for Press over metal CTE range:	Request information from technical department
Alloy Compatibility for Press over metal:	Request information from technical department
CE Marked:	Yes
EN ISO 6872:1998	Yes

Matchmaker Press over metal

Matchmaker Press over metal gives you the strength of a metal bridge with the beauty of an all ceramic crown and the option to provide porcelain shoulders quickly and simply.

Traditionally these are difficult and time consuming to build so as to obtain a perfect fit. However, with the Matchmaker Press over metal technique they are now simple. Cast up the metal framework using one of the recommended alloys, apply and fire Propaque Paste Opaque and press Matchmaker PRESS 2 or 5 gram Translucent Pellets over the top. Then just glaze and stain or lay on an incisal edge using the Matchmaker LF Low Fusing Ceramic.

..... perfect shades first time every time



PRESS

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Pressable Ceramic

PRESS

A range of pressing pellets for every application

With Matchmaker PRESS the choice of ingots is straightforward. Just choose and follow the guidance below. Matchmaker PRESS, pressing made simple - and with perfect shades, incredible vitality first time every time.

Press & stain or press & incisal edge

Making beautiful all-ceramic crowns with Matchmaker PRESS is simplicity itself. Choose the required shade of Matchmaker PRESS Translucent or V pellet and then just press and stain using Matchmaker Living Stains. It's as easy as that. Or add an incisal edge with Matchmaker LF Low Fusing Ceramic for greater translucency and opalescence or add Matchmaker LF Colour Translucent to match an adjacent tooth.

Layering crown technique

Matchmaker PRESS Standard pellets give you higher chroma and less translucency. They are designed for situations where a full layering technique is required such as when the underlying tooth is particularly dark in colour or the restoration needs additional colours to be added to match an adjacent tooth.

Veneers, inlays, occlusals & custom shades

Choose the Matchmaker PRESS TT pellets for veneers and inlays where it is primarily enamel that is being replaced but where the restoration still has to reflect the colour of the underlying dentine shade. The Matchmaker PRESS OT pellets have greater opacity and are designed for occlusal restorations. For non standard shades choose the Matchmaker PRESS V pellets. Then just finish with Matchmaker Living Stains or Matchmaker LF Low Fusing Ceramic. With Matchmaker PRESS you create whatever your imagination dictates.



beauty with strength



Matchmaker Zr PRESS over Zirconia

Imagine the beauty of all ceramic crowns and bridges made even more lifelike and with a quick and simple technique. Now your patients can benefit from the natural healthy smiles provided by combining the strength of a zirconia framework, with the beauty of Matchmaker Zr PRESS and Matchmaker Zr layering porcelains.

Combining traditional lost wax techniques with advanced CAD/CAM technology, the process is suitable both for single technician and volume production laboratories. There are two ranges of pellet translucency available to suit the clinical situation and technician preference

Press and stain

Making beautiful all-ceramic crowns with Matchmaker Zr PRESS is simplicity itself. Wax-up over the zirconia framework to full contour or reduce the incisal third ready to lay in the enamel. Choose the required Matchmaker ZR Translucent dentine pellet, burn out the wax and press. Then just layer in Matchmaker Zr enamel (when required) and apply Matchmaker CTE fluorescent stains.

Full layering technique

Designed primarily to perfectly reproduce the colours of the adjacent anterior teeth. Wax-up to reduced contour over the zirconia framework. Choose from the Matchmaker Zr Standard pellet range and layer with Matchmaker Zr layering porcelain. Lay in internal colours and stains as required for incredible results.

. . . . perfect shades first time every time

Zr PRESS



Matchmaker LF Low Fusing Ceramic

Matchmaker LF Low Fusing Ceramic has been developed for both metal ceramic crowns and bridges and also as a veneering ceramic on top of Matchmaker PRESS ceramic cores, inlays, onlays and veneers. Matchmaker LF is made from a special glass and leucite material and contains pigments and fluorescers which mimic the optical properties of the natural tooth structure in varying kinds of lighting situations. This special matrix is also less abrasive to the opposing dentition than traditional feldspathic formulae.

Matchmaker LF is supplied in the standard range of opaque and dentine shades including Paste Opaques. Ancillary powders such as Colour Transluents, Opacious Dentines, Gingivals, Opalescent and Fluorescent complete the range of possibilities.

Matchmaker Living Stains

A range of stains has been developed for use with both Matchmaker LF and Matchmaker Press over metal. Matchmaker Living Stains are both translucent and fluorescent and can be applied both internally and externally. The Matchmaker Living Stains Kit contains fourteen fluorescent stains including four that have been matched to the A, B, C and D shade ranges. For instance, shade A2 can now easily be changed to an A3 using stain reference A.

Matchmaker LF Physical Properties

1st Dentine Firing:	770°C
Range of Shades:	A1 - D4
Bleach Shades:	Yes
Dentine CTE after 2 & 4 firings 25°C to 500°C 10 ⁻⁶ K ⁻¹ :	11.3
Glass Transition Temperature:	510°C
Alloy Compatibility CTE between:	13.9 to 15.1 10 ⁻⁶ K ⁻¹
Alloy Compatibility Types:	High & Low Gold, Silver Free, Non-precious
CE Marked:	Yes
EN ISO 9693:2000	Yes



LF



the strength behind the smile



The use of computer aided design and manufacturing has enabled new classes of non-metallic sub-structure to be developed. Whether it is an aluminium oxide coping or a zirconia framework, the beauty of Matchmaker ceramic is available to layer on to these structures.

Matchmaker ALX for use on Aluminium Oxide and Matchmaker Zr for Zirconia have the ability to give incredibly lifelike shades. Add the range of complementary powders and stains and you get results that need to be seen to be believed.

Matchmaker ALX and Zr ceramics are manufactured in exactly the same range of powders, making it easy for the ceramist to switch between the two types of sub-structure without having to learn new techniques.

Matchmaker ALX & Zr Physical Properties

	ALX	Zr
1st Dentine Firing:	980°C	810°C
Range of Shades:	A1 - D4	A1 - D4
Bleach Shades:	Yes	Yes
Dentine CTE after 2 & 4 firings 25°C to 500°C 10 ⁻⁶ K ⁻¹ :	7.1	9.4
Glass Transition Temperature:	580°C	550°C
Framework Type:	Aluminium Oxide	Zirconia
CE Marked:	Yes	Yes
EN ISO 6872:1998	Yes	Yes

..... perfect shades straight from the bottle

ALX

matchMaker

All Ceramics

ALX / Zr

Unbelievable beauty

On it's own, an aluminium oxide or zirconia framework looks dense and opaque, whilst the resulting crown or bridge looks fantastic. This is the beauty of the internal translucency of Matchmaker ALX and Zr layering ceramics as they work in perfect unity with the underlying framework, turning the density of the sub-structure into the beauty of the restoration.

Making it easy to build the shade

Within both ranges there is the full complement of the sixteen standard dentine shades plus bleach shades. Both aluminium oxide and zirconia are optically bright. Special liners are provided with Matchmaker that mask this optical brightness and improve the veracity of the shades themselves. In addition for the Matchmaker Zr there is an additional neck dentine for use interstitially and to mask the outline of the framework. The range of shoulder materials harmonise with the sixteen standard shades.

Putting the colours to work

Natural teeth are made up from soft and subtle colours. These translucent colours are found not just incisally but cervically as well. Use the Matchmaker ALX or Zr Colour Translucents to reproduce them. Their power comes when they are laid alongside the complementary colours. Apply the Opacious Dentine, Gingival, Opalescent and Fluorescent shades to put the power into your hands that reproduces nature and creates lasting beauty.

Matchmaker CTE Stains

Both Matchmaker ALX and Zr have coefficients of expansion in the range between 7 to $10 \times 10^{-6} \text{ K}^{-1}$ and so require their own range of stains. Matchmaker CTE Stains are both translucent and fluorescent and are matched to both products. They can be applied both internally and externally. The shade range includes the four stains A, B, C and D that enable shades within a range to be darkened.



Zr





... explore the secrets of a perfect smile



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