



Roland Höhne CEO Kuss Dental

Kuss Dental is a German-managed company located in Madrid which was founded in 2001. Since that time it has acquired a reputation as a highly professional address within the dental sector. One of the foundations of this success is the fact that Kuss Dental is managed by its owner and led by Roland Höhne, who can look back on more than 30 years of professional experience. Kuss Dental markets its products not only in Europe, but also in South and Central America and Africa. The company has become known for its top products, such as the light-cured wax Metacon, the Phaser micro-pulse welding device, the light cured products Kiero Link, Kiero Form, Kiero Plast y Conlight or the all-round bleaching range Easywhite®, and for some time now for its own brand consumable article KIERO. Kuss Dental focuses its activities on the needs of its customers while guaranteeing a consistently high quality - a guiding principle which is reflected in the logotype:

**“Innovative Products - Made in Europe”**

## You are always welcome here

**K**uss Dental is one of the most innovative firms in the Spanish dental sector and stands for: system development, modernisation, advanced training in new technologies. Its function as a modern between German and Spanish dental experts is promoted by a multilingual, communicative and interdisciplinary team. In this manner Kuss Dental creates the synergies that are produced between users and developers. Our team consists of specialists with many years of professional experience who provide you with help and advice with your concerns. It is the human aspect that makes the difference..

**The philosophy of the firm is manifested in three keywords: service, customer and technologies**

In today's working environment we - like a growing number of multinational companies - improve our efficiency by outsourcing some of our sub-processes. This means that our team can concentrate on its actual work and take advantage of the professional knowledge of our service providers, their expertise and the opportunities they provide.

Together with a group of scientists, chemists, biologists and engineers we outline new products on the basis of customer proposals or basic research and coordinate product

maturation up to the time of market launch. As well as saving time, our products also help to optimise the working routines of the dental laboratory and dental clinic in order to improve their competitiveness. We market our products not only to end customers, but also through resellers, as well as producing them under our own brand names. For example, Kuss Dental is at the cutting edge of the development of the new generation of light-cured products, which enable not only increased precision, but also clean and faster working. The final highlight is Kiero Seal: a class IIa implant sealing material that is unique all over the world, as well as Kiero Plast, the universal light-cured modelling paste for the dental technician.

**The customer relationship is not only a question of trust; it is above all an exchange of information, i.e. a dialogue**

Compliance - i.e. adherence to laws and directives as well as voluntary ethical and moral codes - and country-specific circumstances are of great importance for the national and international launch of our brands. Consequentially, Kuss Dental is certified according to quality management system of medical devices ISO 13845:2016 by IQ-Net. However, Kuss Dental also sees its field of work as being the transfer of knowledge: for example, studies are carried out at

universities, seminars held for students and dental technicians and further training courses in new technologies offered at regular intervals. This guarantees a continual exchange of information. Since 2004 Kuss Dental has been a **member of the German-Spanish Chamber of Commerce**, where we invite renowned dental specialists as speakers to the annual New Technology Days.

Kuss Dental has an outstanding self-financing system. Since its foundation the firm's acceptance in the market, its profile and earnings situation have continuously improved. The important aspect for a successful company strategy is an openness to new trends and changes in the market, to which rapid responses have to be found. In this manner - so we believe - the sustainable success of our company will be secured in the future.

**We are not short of ideas**

Kuss Dental's business strategy also includes the use and expansion of new marketing channels - such as our new three-language Internet site and Skype. The extensive use of technology by the company was a declared aim from the beginning, thus enhancing our image. In our view this is where the future lies in the development of new international markets.

## Light-cured Products

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## Resins and Ceramics

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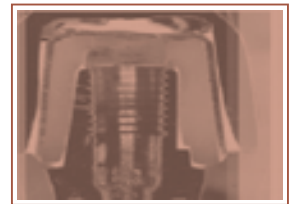
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## Alloys and Attachments

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## Dental Surgery

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### KIERO FORM

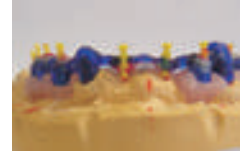
- » Universal Light-Cured Modelling Gel «
- » Cold modellation without contraction «

Kiero Form is a universal light-cured composite for the modelling of milling and attachment parts and the blocking of cast items.

- Kiero Form can be applied directly from the syringe and easily removed from the model
- Curing is carried out with high and low-power UVA light-emitting devices (320 y 500 nm)
- The cured Kiero Form can be combined with commercially available waxes
- Kiero Form combines perfectly with Metacon and Kiero Plast
- Kiero Form burns without residues and is also suitable for ceramic injection technology
- Intra- and extra-oral blocking of cast parts (soldering)
- Modelling of adhesive bridges, inlays and onlays
- Modelling of attachments, telescopic and conical crowns
- Application of the placeholder for bleaching splints
- Its colour allows a deep and rapid polymerization



The kit contains:  
3 syringes of 3 g  
9 application cannulas



### KIERO PLAST

- » Universal Light-Cured modelling Paste «
- » Cold modellation without contraction «

Kiero Plast is a universal and thixotropic one-component composite in paste form. It burns out completely and cleanly even in thicker layers and cures in all conventional light curing units (320-500 nm). You can easily adapt it by hand because it has nearly no inhibition layer. It is perfect for the modelling of implant superstructures, for pantographs, transfer guides, checkbites, combined restorations and general retaining or fixing.



- Dimensionally stable with great fitting properties
- Easy to grind once light cured because the material has a hard surface stability
- Easy to work out with carbide burs or rubber polishers before investing
- Kiero Plast can be used in conjunction with conventional waxes or light cured wax
- Very fast and pleasant working
- Perfectly aligned viscosity for modelling by hand
- Nearly without inhibition layer

The kit contains:  
1 tar of 30 g



### KIERO LINK

» Light-Cured Metal-Resin Bonding with opaquer «  
» Framework, clasp and implant-retained structure «

Kiero Link guarantees a permanent bond and outstanding adhesion values in the case of compressive, shearing and tensile loads. Edge gap clearance. No thermal load on the metal framework. Polymerisable in every high or low-performance light-emitting device (320-400 nm).

#### Indicaciones

- Free choice of alloy and resin
- No dissolution of the opaquer by the monomer
- Individualised opaque application



#### The kit contains:

- Basic paste (4 g)
- Opaquer, powder\* (10 g)
- Opaquer, liquid (10 ml)

\* Available in colour: pink  
dark pink  
A3  
white



▶ Product Video



### DELTA SPLINT

» Economical and Fast for All Splints «

Delta Splint is a light-cured MMA-free composite specially developed for the time-saving production of all types of splints (drilling templates, check bites, insertion aids etc). It can also be used for blocking structures.

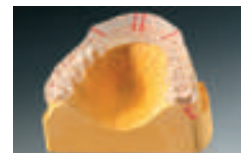
- MMA- and peroxide-free composite
- No discolouration in the mouth, colour-fast
- Tensile strength and modulus of elasticity optimised for bite guard splints; better for ATM
- Can be polymerised with any common UVA light-curing device (320 - 400 nm)

#### The kit contains:

- Delta Splint Twelve 9-gram strands, individually packed
- Delta Bond Light-curing liquid bonder (10 ml)
- Delta Glaze Light-curing glaze (10 ml)
- Delta Algin Plaster splint insulation (50 g)
- Delta Lina Instrument and hand insulation with lime aroma (10 g)



▶ Product Video



### ACRIFIX

#### » Light-Cured Dental Precision Resin « » The original in two colours «

AcriFix is a light-cured, gel-like dental acrylic for use in dental surgeries and laboratories. It enables work to be performed quickly without anterior walls or long polymerisation times and stands out due to its uncomplicated processing, high levels of stability and outstanding modelling properties. It is a Class IIa product for the use in mouth. Because of its compact properties it can be worked out easily and remain shiny. It can be cured without difficulty in commercially available light-emitting devices (360-420 nm)

##### Fields of Application:

- Correction of bubbles, pores and cracks and small defects in denture bases
- Expansions of model castings and saddle linings
- Any kind of removable prostheses repair
- Closure of screw channels and corrections of implant-supported work
- Fast and reliable production of partial and temporary dentures without anterior walls
- Fixing and attachment of connecting elements and teeth in the mouth
- Modelling of papils
- Bite corrections



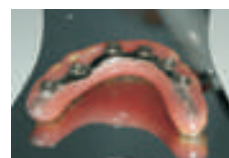
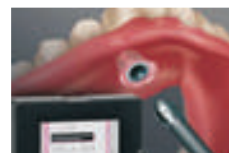
Kiero Handlight (page 16)

##### Accessories

- 3 g Acrifix pink in a light-protected syringe
- 3 g Acrifix A3 in a light-protected syringe
- 5 ml bonder

##### The kit contains:

- 3 syringes of 3 g in colours pink or A3
- 1 bottle of 5 ml bonder
- 12 cannulas



### KIERO BLOCK

#### » Red Light-Cured Modelling Gel « » Clean waxfree modelation «

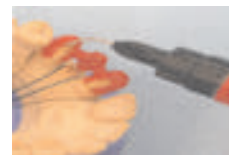
Kiero Block is a light-cured red thixotropic gel-like composite. As it has better qualities than wax it can be used as substitute in many modellings which are not to be cast.

- Owing to its very good stability, Kiero Block is ideal for modelling the Cercon, ZirkonZahn, Ceramill etc. pantograph systems
- Covering of sensitive parts during processing, before sandblasting, blocking of stumps
- Closure of saw cuts and pores on the plaster model
- Cured with any commercially available light unit (320 - 500 nm)
- Easy to apply, high-precision
- Fast light-curing but not combustible
- Easy to distinguish due to its red colour



##### The kit contains:

- 3 syringes of 3 g
- 9 cannulas



### KIERO PLANCHAS BASE

#### » Light-Cured Base Plates «

- ▶ Extra-thin base plates (1.2 mm)
- ▶ Specially produced for implantation, total and partial dentures
- ▶ High level of stability and perfect adaptability
- ▶ Careful positioning of the plastic teeth



(320 a 500 nm)

1 tin containing 50 pieces in pink colour

¡ The thinnest !



▶ Product Video

### KIERO PLANCHAS TRAY

#### » Light-Cured Tray Plates «

- ▶ 2.4 mm-thick light-cured tray plates
- ▶ Especially for the production of individual impression trays and checkbites
- ▶ Good levels of adaptability and stability
- ▶ High dimensional stability and low shrinkage
- ▶ Long processing time



(320 a 500 nm)

1 tin containing 50 pieces in pink or clear colour

¡The most stables !



▶ Product Video

### KIERO CUBETA BONDING

The Kiero Cubeta Bonding system is a specially developed two-component liquid system for bonding the impression material with the individually produced impression tray. It is applied in the laboratory as the last production step before dispatch to the dentist. Contains an activator and a blue bonder.

- ▶ Avoids that the impression material detaches from the individual impression tray thus guarantying the accurate realization of accurate stone models
- ▶ Very easy and fast 2 step application
- ▶ Easy to distinguish due to its colour
- ▶ Its effect last until 4 weeks

#### » Bonding for impression trays «

#### » All kinds of silicones «



1 x Activator (5 ml)  
1 x Bonder (5 ml)

### KIERO OLIBOR

#### » Technical universal Light-cured Modelling Paste «

OliBor is a light-cured non-adhesive paste for dental modelling, preferably from primary models in combined techniques. OliBor can be cured without difficulty using commercially available light-emitting devices (380 – 500 nm). Curing is performed without a vacuum.

#### Characteristics

- ▶ Easy and rapid application by hand
- ▶ After light-curing it can be worked out and milled easily
- ▶ Leaves a smooth surface
- ▶ Resistent to temperature variations

#### Indications

- ▶ Production of milling stumps
- ▶ Creation of master dies during combination work
- ▶ Due to the neutral colour of the material, zircon work retains its natural colour and aesthetic appearance
- ▶ Master dies for zircon work
- ▶ Filling material for primary stumps in electroplating
- ▶ Creation of stumps after second imprints in crown and bridge work



1 tar of 30 g paste

### KIERO CEM WHITE

» White cement for intraoral and extraoral use «

**Kiero Cem White** is a dual cure (light and self-curing), permanent, strongly radiopaque and versatile cement, purpose made for the adhesion in mouth between tooth structure (dentin/enamel) and ceramic, metal and composite as well as in the laboratory. It is based on methacrylate resin and inorganic filler particles of 0.01-1 µm which guarantee a very high mechanical strength. It is available in a white opaque colour.

#### Properties:

- ▶ This universal cement stands out for its strong adhesiveness and biocompatibility, meeting highest standards and requirements.
  - ▶ Due to the white opaque colour it adapts harmonically to the framework structure.
  - ▶ It allows the dentist to fix the margins of the inlays reliably by means of a LED lamp once the self-curing has begun. (320-550 nm)
  - ▶ The excess cement can be easily removed after brief light exposure (approx. 5 seconds).
  - ▶ It is very user-friendly because of its 2 minutes processing time and 3 minutes curing time
  - ▶ These properties are suitable for the adhesion of inlays, abutments and attaches.
- This thixotropic property comforts working particularly in small objects.

#### Indications:

The **Kiero Cem White** produces a strong and permanent adhesion between the tooth structure and ceramic, composites zircon dioxide and metal:

- ▶ Precious metals, semi-precious metals, non-precious metals
- ▶ Zircon dioxide, Feldspar ceramic and hybrid ceramics
- ▶ Harden LC composites



### KIERO BOND

» Bonding for light-cured composite «

**Kiero Bond** is a clear LC liquid to get a bonding between no cured LC composites and acrylics. It creates a inhibition layer in the objects to be bond. It is suitable for the modellation of dental works while using resin attachment. First you apply a fine layer of Kiero Bond and then you activate it by means of a standard light curing device between 320 and 550nm. Now you can work the no cured LC composite over the receptive surface and afterwards you light cure it as described in the manual of the manufacturer.

#### Indications:

- ▶ Bonding between LC composites already polymerized and such which are still not polymerized
- ▶ Bonding between acrylic parts (attachments) or molding discs and not polymerized LC composites

Bottle of 5 ml



### KIERO DESIGN KIT

» Modelling with structure «

Create the perfect union between light-curing modeling composites and attaches which burn out cleanly and completely while producing dental structures for casting or scanning.

The Kiero Design Kit offers the dental technicians the possibility to replace or combine resins or waxes when modeling with cleanly and completely combustible attaches, thanks to the combination of 3 light-curing products, thus eliminating the problems of preheating as well as increasing the stability of the structure. Since this kit contains gel and paste composites, you can easily handle all situations in your daily work. Another advantage is that is modeled cold i.e. without shrinkage.

These modeling composites polymerizes quickly with all common light curing devices between 320 and 500 nm. They also owns the typical advantages that they are very easy to grind with micromotors after polymerization because of their high stability and final hardness. This creates a clean and smooth structure for casting or scanning



#### The Kiero Design Kit contains the following products:

- 1 tin Kiero Plast (30 g.): Blue LC modelling paste
- 3 syringes Kiero Form (3 g. each): Blue gel-like LC modelling composite
- 1 bottle Kiero Bond (5 ml): LC liquid for crosslinking

### KIERO GEL VERDE

» Reversible duplicating gel for model casting «

### KIERO GEL AZUL extra-hard

» Reversible duplicating gel for model casting of investment materials and plastic casting technique «

### KIERO GEL ROSA Orthodontics

» Reversible duplicating gel for plaster «



Tar of 6 kg

The Kiero duplicating gels ensure consistently outstanding results on a daily basis. They can be processed accurately according to the drawings. Can be reversed several times through the addition of water.

Service temperature 45-47°C  
Melting temperature: 90-95°C

### KIERO PROTOFIN

» Gloss oil with the natural active ingredient of calamus root «

Kiero ProtoFin is a denture finishing spray with a peppermint taste in order to remove the residues and residual monomer from the surface of the dentures. It is applied as the last working step and improves the presentation of the dental technicians work.

- ▶ High-gloss surfaces
- ▶ Easy to use: apply, allow to act and wipe off
- ▶ Mint Flavour
- ▶ Increases the adhesion of the prosthesis



100 ml pump spray

### KIERO MUFLA

» Pouring cuvette «

With this small plastic pouring cuvette it is possible to produce high-quality dentures with the minimum amount of time and materials.

- ▶ Efficient working without plaster
- ▶ Simple, fast and gentle deflasking
- ▶ Lower gel consumption due to reduced mini-cuvette
- ▶ Homogeneous plastic surface



1 cuvette with channel cutter

### KIERO FINISH

» Universal Liquid Polishing Paste «

Kiero Finish is a liquid, beige universal polishing paste for plastic and metal. Simply spray on and polish. It quickly and effortlessly produces a high-gloss polish on non-porous surface structures.

As a brightener for the high-gloss polishing of all dentures and veneers it is harmless to the health and does not attack the materials.

- ▶ Ideal with cotton brushes and buffing wheels
- ▶ High gloss for plastics and metals
- ▶ Easy to wash off
- ▶ Low consumption



1000 ml

### KIERO SILICONE PUTTY A85

» Putty/Putty multiuse «

Kneadable lab-silicone with mixing ratio 1:1 in white and dark-grey colours. (Putty-Putty) Final hardness 85 Shore A. After hardening the material turns light-grey. Good to scan because of the patina. Mixing time is 30 seconds, the plastic phase 90 seconds. Final polymerization after 5 minutes. Temperature stable up to 200°C.

- ▶ Not sticky nor stinky
- ▶ Very easy to mix
- ▶ High shape exactitude
- ▶ High edge stability
- ▶ Not harmful to the skin

#### Contains:

2 x 5000 g components A + B  
With 2 dose spoons



## KIERO RESINA » Modern High-Tech Resins «

Thanks to their outstanding mechanical properties, Kiero resins are the state-of-the-art solution. It goes without saying that they are free of cadmium and colour-stable due to their barbiturate compounds. Kiero resins comply with norm ISO 1567 (denture base acrylics) and are licensed in class 2a according to the German Medical Devices Act for removable and fixed dentures. Produced according to the guidelines of ISO 9001 /EN 46001 and ISO 1567.

- ▶ Low level of polymerisation shrinkage due to the mixing of various powder sizes (micro-beads technique)
- ▶ Easy to work and polish due to the high degree of homogeneity (few plaque deposits and reduction in fungal affinity)
- ▶ Good biocompatibility thanks to the low residual monomer content
- ▶ High level of colour stability



| Name | Indications | Processing Breadth<br>Flow Phase/Plastic Phase | Mixing<br>Ratio | Polymerisation | Colours |
|------|-------------|--|-----------------|----------------|---------|
|------|-------------|--|-----------------|----------------|---------|

### Cold-Curing Resin

|                             |   |                 |                                 |                                 |                             |
|-----------------------------|---|-----------------|---------------------------------|---------------------------------|-----------------------------|
| Kiero Resina<br><b>AUTO</b> | Complete dentures,<br>repairs, temporary dentures,<br>linings | 3 min. / 4 min. | 10 gr. powder,<br>5-7 ml bottle | 40-50 °C<br>2-4 bar<br>6-7 min. | Pink, pink opaque,<br>clear |
|-----------------------------|---|-----------------|---------------------------------|---------------------------------|-----------------------------|

### Hot-Curing Resin

|                              |   |           |                               |   |                             |
|------------------------------|---|-----------|-------------------------------|---|-----------------------------|
| Kiero Resina<br><b>TERMO</b> | Complete and partial dentures,<br>linings | 2-3 hours | 10 gr. weight,<br>4 ml bottle | Place in water bath,<br>bring to the boil,<br>maintain 20-30 min. | Pink, pink opaque,<br>clear |
|------------------------------|---|-----------|-------------------------------|---|-----------------------------|

### Self-Curing Resin for Orthodontic Applications

|                             |                                  |  |                               |                                   |  |
|-----------------------------|----------------------------------|--|-------------------------------|-----------------------------------|--|
| Kiero Resina<br><b>ORTO</b> | Spreading and spraying technique |  | 10 gr. powder,<br>4 ml bottle | 37-45 °C<br>2-4 bar<br>20-30 min. | Clear, pink<br>Colour pigments in red, blue,<br>green and yellow available |
|-----------------------------|----------------------------------|--|-------------------------------|-----------------------------------|--|

### Cold-Curing Micro-Bead Resin

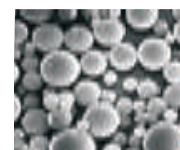
|   |   |                 |                                 |                                 |             |
|---|---|-----------------|---------------------------------|---------------------------------|-------------|
| Kiero Resina<br><b>AUTO<br/>MICROPERLAS</b> | Complete dentures,<br>repairs, temporary dentures,<br>linings | 3 min. / 3 min. | 10 gr. powder,<br>4-5 ml bottle | 40-50 °C<br>2-4 bar<br>6-8 min. | Pink, clear |
|---|---|-----------------|---------------------------------|---------------------------------|-------------|

Fibres can be supplied free of charge

#### Why are micro-bead resins better?

The Kiero micro-bead resins are composed of two granulate sizes: 70% correspond to the normal granulate size (60-70 µm) and 30% are only 10 µm. The result is a more compact structure with a very low level of polymerisation shrinkage. As less monomer is required as a result, the resin is more biocompatible and hypoallergenic. The mixing of powder and liquid is more complete and the resulting compound is denser, can be poured more easily and requires a lower temperature during the curing process.

The result is that Kiero Microperlas produce an excellent fit of the dentures and a smoother surface which can be easily polished with all standard instruments.



#### Plaster-Resin Insulation

|                |                                    |
|----------------|------------------------------------|
| Kiero Aislante | Plaster-resin insulation (1 litre) |
|----------------|------------------------------------|



## KIERO RESINA PROVI IMPLANT

Autopolymer on an MMA base with micro-bead technology for the production of permanent dentures that are completely free of metal in the field of implant prosthetics and which can be worn for up to 12 months. The material is available in 6 cutting and special colours (S00, SW, SE1, SE2, SE3, light-blue) and 10 dentine shades (DA1, DA2, DA3, DA3.5, DA4, DB1, DB2, DB3, DC2, DD3).



#### Available:

**Starter kit:** 2 x 100 g powder + 100 ml liquid (colour can be selected)

**Individual pack:** 100 g powder



### DENSEO GLAZE

» With a natural shining effect «

Denseo Glaseado is a premixed glaze mass with exceptional glaze firing results to achieve highly accurate shades. Thanks to micrometric technology, the particles partially diffuse onto the ceramic surface, keeping the pericimatis intact and thus achieving high resistance to abrasion.

- Natural shine in a single firing cycle
- Suitable for any ceramic
- No gray or white discoloration
- Natural fluorescent glaze
- Low melting point

The firing temperature of the glaze firing depends on the used ceramic and is the same as written in the manual for your ceramic. (from 725°C to 1050°C)

Please remove before use.

To make the mixture creamier you can add the Denseo Universal Liquid.



Bottle 6ml



Tar 10 g

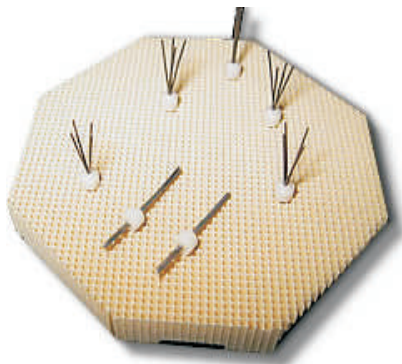
### KIERO SIMPLY FIRE

Novel firing tray of full ceramic parts for metal-ceramic work, as well as their characterisation.

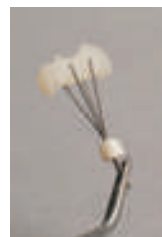
You can burn all standard bridges frameworks and galvanised ones also high-volume molar crowns on this tray.

It can be also combined with commercially available pins.

The firing tray must be heated up to 980° C before its first use.



Honeycomb panel with 8 fan pins, ideal auxiliary for all metal-ceramic and full ceramic work.



Pins bundles of four 0.4mm thickness each one. They fanned out to get the accurate way for the secure fixing of full ceramic parts while they are being fired.



Pin opened (5 units)



Pin unopened (8 units)



Also useful as a holder for characterisation



Individual spider honeycomb plate for the secure retention of zircon works, pressed ceramics, etc.

## DENSEO FAIRY

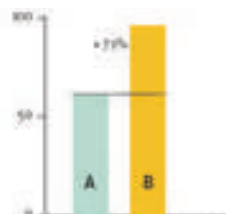
» Cracks are no longer repaired, now they are healed «



Densio Fairy exists in different pins of 10 applications each for:

- > high fusion porcelain
- > low fusion porcelain
- > Porcelain for ZrO2

Densio Fairy penetrates the ceramic to the finest fissures and cavities



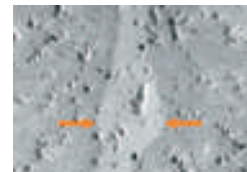
Scientific research shows that ceramics, treated with Densio Fairy, are more stable than before suffering a crack.

- > Flexural strength increases up to 71%
- > The ceramic's ability to resist crack growth is more than 60%



### Indications

- > Healing of the cracks in the ceramic
- > Surface refinement (High-Quality)
- > Can substitute the gloss firing
- > Prevention in complicated cases



Through healer firing the ceramic is fused at the molecular level



Camino tradicional

con Densio Hada

## DENSEO BLANQUEADOR

» Lighten dental ceramics in minutes «  
» Save time and money in one gloss firing «



Makeup to lighten 1 or 2 shades any high or low fusion ceramic as well as for zirconia. The liquid diffuses into the ceramic. The restoration is fired at the same temperature as the gloss firing of the used porcelain, being the minimum temperature 780°C.

Observation: It can only be used once for every restoration.



Tar, 3 g.



## FIRING PADS

The Kiero firing pad was invented by master prosthetist J. Prestin. It is a novel refractory pad made of polycrystalline gold and alumina fibers that resists temperatures up to 1600°C.

It serves as a support for the restorations to be fused on top of the firing tray, replacing the conventional cotton. As no lint is generated, the inclusion of cotton fibers in the ceramic during gloss firing is avoided.

At just 0.8mm thick, it heats up much faster than conventional cooking cotton. There is also no heat radiation as with platinum foils. It is suitable, p. ex. for veneers, onlays and inlays.



5 pz.

**Important!** The Kiero firing pad can also be used in combination with liquid cotton.

Before the first use, preheat it for 10 minutes at 1000 °C in the oven.

### KIERO BONDING METAL-CERÁMICA

Kiero Bonding is a universal metal-ceramic composite that improves the connection between metal and ceramic for all non-precious and precious metals with the exception of titanium and any ceramic thanks to its composition of ceramic compound and metal oxides. Thanks to Kiero Bonding the ceramic layer thicknesses can be reduced, providing an aesthetically pleasing porcelain veneer even in difficult zones.

- Better adhesion
- Reduced oxide formation
- Reduces working time
- Ivory-coloured application
- Compensates the CET



1 tar of 2 ml

### KIERO WELDING WIRE

» Phaser or Laser Welding Wire «



**Níquel-Cromo:** Ø 0,25 mm (2 m)  
Ø 0,40 mm (2 m)

**Cobalto-Cromo** Ø 0,35 mm (2 m)  
(carbón free) Ø 0,50 mm (2 m)

**Titanio (Grado 1):** Ø 0,25 mm (2 m)  
Ø 0,50 mm (2 m)

### KIERO OCCLUSION SPRAY

- Homogeneous filling of colour particles so that consumption of gas is equal to the colour
- Dry spray, no carrier liquids
- Easily removable from the model
- With fine spray nozzle
- Green



75 ml

### KIERO VEST SPEED

» C&B Investment Material «  
» Ideal for light-cured composites «

Kiero Vest is a new enhanced silicate phosphate-bonded, graphite-free special investment material for the entire range of dental alloys for both the cold and hot oven. (Speed cast)

The investment material has a longer processing time, the casting results are smooth and non-porous. It is easy to deflask. Ideal for light-cured waxes that burn without residues.

28 bags of 160 gr.  
1 bottle conc. of 1 lt



### KIERO SCAN SPRAY

» Anti Glare Spray CAD CAM «

- The anti glare spray is apply an antireflection coating
- Leaves a fine grained structure
- White colour
- Thin layer (< 5 i m)
- For any surface
- Easy to removable



Can of 400 ml

### KIERO Fix

» Quick and easy fasting of models for articulating or scanning without movement «

Using the Kiero Fix forceps, the two models are fixed and fasten with the occlusal registration key inbetween in such a way that the intermaxillary relationship is not lost. Thus the mounting process can be carried out in the articulator or scanning without any movement.



Contains: 4 pz.



### KIERO C

#### » CoCr C&B Dental Alloy «

- Suitable for crown and bridge techniques, combination and implant work, adhesive bridges and double crown techniques
- Nickel and beryllium-free
- Readily fusible
- Ergonomic surface treatment
- Optimal welding by laser and phaser

##### Physical Data

Co 61%, Cr 28%, W 8,5%, Si 1.65%

Density: 8.3 g/mm<sup>3</sup>  
 Casting temperature: 1500 °C  
 Vickers hardness: 285 HV 10  
 Modulus of elasticity: 190,000 N/mm<sup>2</sup>  
 CET: 14.1 µm/mK



1 kg

### KIERO NC

#### » NiCr C&B Dental Alloy «

- Beryllium free, biocompatible
- Easy to work out
- Optimal welding by laser and phaser
- Fusión rápida y sencilla
- Very good adherence to the ceramic

##### Physical Data

Ni 59%, Cr 27%, Mo 12%, Si 1,5%

Density: 8,2 g/mm<sup>3</sup>  
 Casting temperature: 1500 °C  
 Vickers hardness: 210 HV 10  
 Resistance: 720 N/mm<sup>2</sup>  
 Modulus of elasticity: 220.000 N/mm<sup>2</sup>  
 CET: 14,3 µm/mK



1 kg

### KIERO MGH

#### » CoCr Partical Dental Alloy «

Kiero MGH is an extra spring-hard biocompatible nickel and beryllium-free model casting alloy on a cobalt base. The alloy stands out due to its physical properties. Ideal for combination and implant works.

Optimal welding by laser and phaser.

##### Physical Data

Co 65%, Cr 29%, Mo 6%, W 1%, Mn 0.6%

Density: 8.3 g/mm<sup>3</sup>  
 Pouring temperature: 1450°C  
 Vickers hardness: 360 HV 10  
 Modulus of elasticity: 230,000



1 kg

### KIERO FASTEN

» Universal clutch for dental analogs «



This simple tool was developed fasten in a to effective and secure manner all types of dental analogues during the work process:

**either milling, shaping, polishing or welding**

Objects are retained manually without applying force thus saving working time, ideal for precision works.

Kiero Fasten allows all dental analogs with a diameter from 0.5 to 6.0 mm.

A single instrument with a handle for holding firmly dental analogues.



### KIERO UNIVERSAL CLEANER

» For Powerful Cleaning and Hygiene «

Kiero Universal Cleaner is a highly concentrated, biodegradable cleaning fluid for a wide variety of applications. The 10 litre canister is supplied together with a spray dosing device in order to guarantee 1:15 dilution without difficulty. The cleaner is disinfectant and dissolves away grease, limestone and plaster, as well as being a bactericide and virucide.

- Denture (nicotine, caffeine, theine, tartar)
- Instrument (alginate, plaster, investment material)
- Plastic (oxides, investment materials, polishing paste, plaster)
- Metal (precious metal, chromium plated)
- Depending on degree of soiling, 1:15 to 1:150 dilution



10 litre or 1 litre

### KIERO MASTER BRUSH

» ... with spheres «

- Ceramic Kolinsky natural hair brushes with integrated spheres
- Brush tip always perfectly shaped
- Size 10
- Optimum moistening of the ceramic compound
- Good handling



### KIERO SUPER GLUE

» Multipurpose rapid glue «

Kiero Super Glue is an all-round super glue for use with plaster, metal, acrylics and porcelain.

#### Advantages:

- Specially for gluing fresh plaster
- Also suitable for sealing
- Thin flowing
- Viscosity 14 mPas



6 x 5 ml

### KIERO CERAMIC FLUID

» Modelling liquid for porcelain with a new formula for ceramists «

The modelling liquid for porcelain Kiero Ceramic Fluid is a novel mixture of minerals and therefore has the following properties

#### Properties and advantages:

- The Kiero Ceramic Fluid creates excellent stability and a plasticity of the ceramic so that it can be very moist and easily sculpted with instruments or brush.
- It lowers the shrinkage of the ceramic due to more homogeneous drying of the material and the following sintering of the ceramic mass. The drying time is approx. 4-5 minutes at 90 °C/ 194°F on the trash and open furnace chamber. Thus reducing internal tensions generating less micro porosities and liftings.
- Improves brilliancy of the colours.
- The fluid can be used also for powder opaquers and shoulder material. So you save 2 further liquids.



Dosing bottle (250 ml)



## KIERO LIGHT ECO

» Economical Light Polymerisation Device  
with Stainless Steel Housing «

The light-curing device Kiero Light Eco has an attractive design and is suitable for operation in dental laboratories and surgeries. Manufactured with a stainless steel chassis and a large interior for up to 3 models.

Contains 4 neon tubes with an emission spectrum of 320-400 nm in order to guarantee uniform and homogeneous curing of dental light-cured materials such as tray plates, light-cured die spacers, blocking-out materials, light-cured composite etc.

### Advantages

- High light yields due to optimal arrangement of the tubes and reflective interior lining of the device
- Broad emission spectrum from 320 to 400 nm, also convertible to 400-500 nm
- The orange filter protects against harmful UVA radiation when the device is closed

### Technical Data

- The average lifetime of the neon tubes (9 W) is more than 1,000 hours
- Dimensions: 260 x 220 x 100 mm
- Automatically adjustable light-curing time of 2 or 3 minutes. After this time the machine switches off and emits an acoustic signal. Also suitable for permanent operation
- With 2 meters-long electric cable



## KIERO HANDLIGHT

» The Smallest Lamp with Double Function «

The Kiero Hand Light is used specifically for protective working on crowns, inlays, onlays and veneers in ceramics. With Kiero Hand Light and the UV/active liquid it is possible to detect **premature contacts** immediately. Place the hand light on your hand piece. Brush the die with the fluorescent occlusion liquid and fit your workpiece in the usual manner. The interaction of the fluorescent occlusion liquid and the UV light also makes the contacts visible which are difficult to make out with the human eye.

It can be used also as a pre polymerization light in the lab.

Furthermore, the Kiero Handlight enables **light-curing** within seconds in the dental surgery (395 to 415 nm) for innovative products such as Conlight, Acrifx ...

### Technical Data

- Light colour: ultraviolet
- Luminosity: 60 mcd (20 mA)
- Light wavelength: 405 +/-10 nm
- Angle of aperture: 15°



## KIERO Suction Tool

» Vacuum Adaptation tool «

To adapt the plates perfectly to the model the model is placed on the granules. It is covered with latex sheet and secured and tensioned with the ring. After the vacuum pump is connected to the valve the air is carefully removed. Finally, close the valve.



- Perfect adaptation
- Avoids the inhibition layer

The kit contains:

|           |                        |
|-----------|------------------------|
| 1 x MV100 | Vacuum suction device  |
| 1 x MG100 | Grains (120 g)         |
| 1 x KD100 | Latex Covers (36 uni.) |
| 1 x IM200 | Insulation             |



## LED2WORK

» LED technology for a high visual convenience «



**LEAN LED**

With flexible arm of different lengths and magnetic holder

### Advantages and characteristics:

- All lamps are equipped with high quality LEDs
- Optimum light quality at all workplaces, flicker-free
- Maintenance-free
- High-quality aluminum housing and shockproof function screens
- Long service life: > 60,000 operating hours (L70 / B10)
- Light colour: 5.200-5.700K daylight or neutral white Ra > 80/85/90
- Full-spectrum light



**MECHALED**  
different arm lengths and magnet holder



**UNI LED II**

With table clamp. Dimmer function can be installed. Also available with drawbar.



**LENSE LED**

with 1.875x magnification. With table clamp or magnetic holder. With flexible arm



Loupe mountable on the UNI LED

## CUBETA CLEANER K1

» Fully Automatic Impression-Tray Cleaning Machine «

Fully automatic impression tray cleaning thanks to Cubeta Cleaner K1 saves you not only expensive working time, but relieves your staff from having to carry out tedious work. The patented technology cleans 15 - 20 trays without preliminary work in just 2 minutes, no matter whether this involves alginate or silicone impression materials. Also ideal for cleaning model base moulds, base plates and silicone moulds.

### Properties and advantages:

- The silicone and alginate residues are trapped in a cage filter
- The machine protects the environment thanks to the low water consumption and the absence of cleaning agents
- The machine pays for itself very quickly as working time can be used for the actual work and not wasted on cleaning
- The metal impression trays do not scratch, but retain their original shine
- Maintenance-free



▶ Vídeo del producto



Clean within 2 minutes



Easy handling:

White button: 1 minute (plastic plates)  
Green button: 2 minutes (metallic trays)



400 bar water nozzle



The alginate or silicone waste are collected in the skimmer compartment



## KIERO MICROMOTOR

» Hand Piece for the Professional «

The Kiero micro-motor is a high-technology tool that provides excellent performance (from 35,000 to 50,000 rpm) and takes its place seamlessly in the product range of Germany's leading hand piece manufacturers. The hand piece shows its strengths when used for professional working in the dental laboratory. The heavy separating, grinding, polishing and milling of dental materials is extremely easy.

### Advantages

- Low weight and quiet running
- Speed from 1,000 - 50,000 rpm
- Anti-clockwise up to 30,000 rpm
- Fatigue-proof working due to innovative, ergonomic design
- High grip strength of the hand piece surfaces
- Microprocessor-controlled overload protection
- The heavy separating, grinding, polishing and milling of dental materials is no problem
- The specially developed dust protection system prolongs the lifetime of the hand pieces



### Technical Data

- Speed up to 50,000 rpm
- Brushless DC motor
- Torque: 7.8 Ncm
- Power: 260 Watt
- Collets  $\varnothing$  2.35 mm or  $\varnothing$  3 mm
- Concentricity  $<0.02$  mm
- Vibration-free running
- Weight: 220 gr.
- Cable Length: 156 mm

### The following versions are available:

- Table control system 35,000 rpm
- Table control system 50,000 rpm
- Knee control system 50,000 rpm
- Foot control system 50,000 rpm



The hand piece is compatible with Kavo K11, Kavo K-Control, WH Perfecta and Muss

## KIERO 3M MICRO MOTOR MOVIL

» Cordless Micromotor with high performing battery «

This micromotor was developed to give users (both technician and dentist) maximum mobility / self- autonomy when performing work. At the same time it means an important aid when using in training courses.

It noted for ergonomic and innovative. The speed range is 1,000 to 40,000 rpm clockwise and counterclockwise. It has a micro processed overload protection.



➤ Producto Video



### Properties:

- Speed: 40.000mn/rpm
- Brushless
- Torque 7,8 Ncm
- Chucks 2,35 3,00 mm (optional)
- Concentricity:  $<0,02$  mm
- Diameter max. 28 mm
- Weight 220 g. / 434 g.
- Length: 156 mm
- Charging time: 2 hours
- Independence up to 8 hours depend on the use
- Supply: Battery Li-ion 14,8 V; 10400 mAh



It has a clip in order to place it at the belt to be more comfortable

### There are 3 version of Kiero 3M avialible

- Micromotor móvil with normal handpiece
- Micromotor móvil with light handpiece
- Micromotor móvil with contra-angle
- Exists a contra-angle alone

## KIERO LPC

### » Universal Light Polymerization Device « » All kind of Composites, varnish and paints «

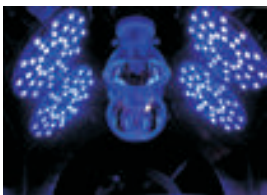
The Light Curing device *Kiero LPC* can be used universally. It is equipped with 2 different light sources (4 multi LEDs and 2 halogen) which allows a quick safe and deep polymerization. Due to its wide light range from 320-550 nm all habitual light cured products in the market can be hardened. Moreover you can dispose of an incorporated refrigeration system to avoid overheating during the polymerization.

#### Main features and advantages:

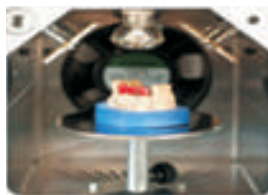
- Very intense light exposure because of the mirror lining of the interior side
- The table is turnable and can be change in height
- Incorporated secure when opening the door the light cuts off
- The timer can be adjusted between 1 to 99 minutes
- The light emission range is from 320 to 550nm LED (320-400nm) halogen (400-550nm)
- Works only with LED (cold light) or with LED and halogen light at the same time
- Very resistant due to its metallic design
- It has 2 halogen lamp sockets
- Incorporated ventilation to controls the interior temperature

#### Technical data:

- Outer dimensions: width 22 cm, depth 30 cm, height 29 cm
- Inner dimensions: width 15 cm, depth 16 cm, height 10 cm
- Supply: 220V, 50/60 Hz
- Power: 150 W
- Wavelength of emitted light: 320-550 nm
- Weight: 8 kg



4 x LED y 2 x halogen bulbs



Turntable height adjustable



Easy to use timer



Optional use of halogen light and ventilation

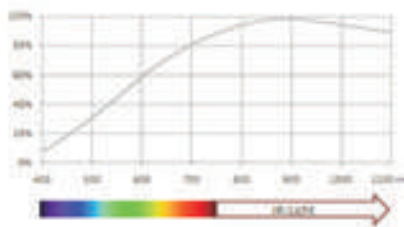
## KIERO LIGHT RAPID

### » Universal Light curing unit for preliminary polymerization «

Kiero Light Rapid is a light curing device intended for pre-polymerizing of LC materials in general. Is capable of hardening surfaces in few seconds due to its powerful light. Equipped with a halogen light bulb of 100 W that emits light within a spectrum from 360 up to 790 nm and also in the infrared range (heat).

#### Main features

- Easy-to-operate with a huge button in the lower fron.
- Suitable for all composites in the market
- Generates light and temperature
- Light spectrum is 360-790 nm
- Compact design
- Do not use it for deep light curing.
- Beware of high temperatures with sensitive product.



#### Technical data

- Dimensions: width 12 cm, depth 16 cm, height 25 cm
- Supply: 220V, 50/60 Hz
- Power: 100 W
- Wavelength of emitted light: 360-790 nm
- Weight: 1,4 kg



## CONLIGHT

### » Gel-Like Modelling Material for Direct Use in the Mouth « » Unique for its properties «

Conlight is a new, revolutionary, light-cured, stable, MMA-free gel-like modelling material for direct use in the mouth. Due to its thixotropic properties it is considerably easier to apply, for example without any bubbles. Its plastic composition guarantees smooth homogeneous castings, as it burns without residues. Irritation of the mucous membranes is also excluded.

- Authorised medical product class I
- Simple application; enormous time savings
- Odourless and tasteless; biocompatible (MMA-free)
- Hardens with all standard dental hand lamps
- After polymerisation the material is hard, stable and tension free and can be processed without difficulty
- The milling devices do not become smeared
- Thanks to the form of administration in syringes and the fact that it consists of one component, working with this material is pleasant for the patient and dentist
- Burns without residues
- Its yellow fluorescent effect facilitates visual working with the product in difficult-to-access zones



► Product Video

#### Fields of Application

- Splinting of implant abutments directly in the mouth in order to ensure better results during impression-taking
- Blocking of parts to be cast in mouth



## ACRIFIX

### » Light-Cured Dental Precision Resin « » The original in two colours «

AcriFix is a light-cured, gel-like denture resin for use in surgeries and laboratories. It enables rapid working without anterior walls or long polymerisation times and stands out due to its uncomplicated processing, high levels of stability and outstanding modelling properties. AcriFix is free of MMA and therefore particularly biocompatible. It can be cured without difficulty in commercially available light units (360-420 nm) without a vacuum.



#### Fields of Application:

- Correction of bubbles, pores and cracks and small defects in denture bases
- Expansions of model castings and saddle linings
- Closure of screw channels and corrections of implant-supported work
- Fast and reliable production of partial and temporary dentures without anterior walls
- Fixing and attachment of connecting elements and teeth in the mouth
- Modelling of periodontal pockets
- Bite corrections

#### The kit contains:

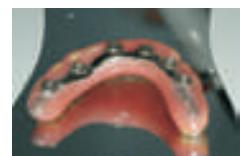
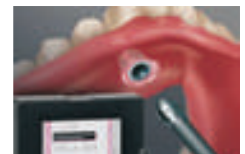
- 3 syringes of 3 g in pink or A3
- 5 ml de bonding de AcriFix

#### Accessories

- 3 g Acrifix pink in a light-protected syringe
- 3 g Acrifix A3 in a light-protected syringe
- 5 ml bonder



Kiero Handlight (page 16)



## KIERO SEAL

» Gel for Sealing the Contact Area between Implant and Abutment «  
» Prophylaxis of peri-implantitis «

For constructional reasons, all of the known two-part implant systems have a gap (micro-gap) of 4 to 120 µm between the implant and the abutment. In the cavities of the implants, bacteria find an ideal place to multiply. Thanks to its thixotropic properties, the Kiero Seal Gel is able to easily penetrate these implant cavities and seals them reliably within a short time after curing. In this way it is possible to protect this problematic zone against bacterial attack for the prevention of peri-implantitis.

### Kiero Seal prevents:

- Infection in the implant-abutment area
- Pumping effect
- Bacteria proliferation in the implant cavities
- Fetid odour
- Unpleasant taste in the mouth

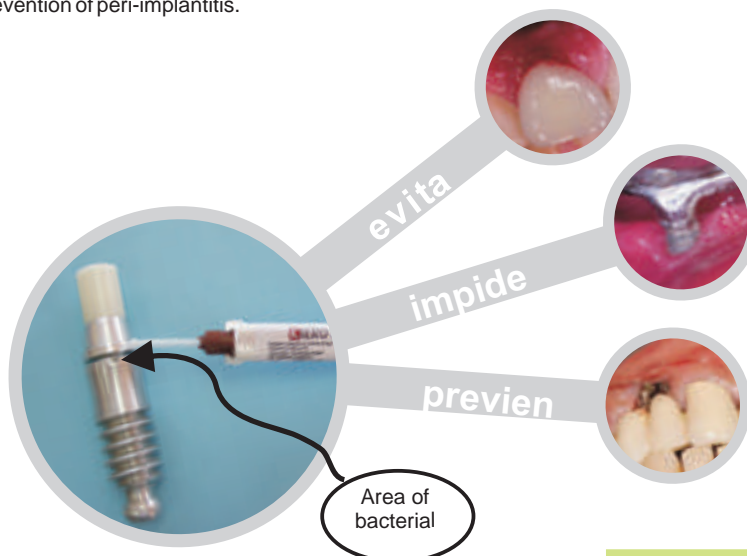
### New indication of Kiero Seal

- Assure the screw against el loosening



#### The kit contains:

- 1 double chamber syringe of 2,5 ml each
- 15 mixing cannulas
- 15 application tips



#### Technical Data:

|                   |                       |
|-------------------|-----------------------|
| Viscosity         | approx. 350 Pa        |
| Colour:           | clear                 |
| Odour:            | odourless             |
| Shore Hardness A: | 18                    |
| Density:          | 1.09 g/ml             |
| Tensile strength: | 4.5 N/mm <sup>2</sup> |
| Application:      | ca. 30 implants       |
| Shelf life:       | 2 years               |



► Product Video

## KIERO CEM WHITE

» White cement for intraoral and extraoral use «

**Kiero Cem White** is a dual cure (light and self-curing), permanent, strongly radiopaque and versatile cement, purpose made for the adhesion in mouth between tooth structure (dentin/enamel) and ceramic, metal and composite as well as in the laboratory. It is based on methacrylate resin and inorganic filler particles of 0.01-1 µm which guarantee a very high mechanical strength. It is available in a white opaque colour.

### Properties:

- This universal cement stands out for its strong adhesiveness and biocompatibility, meeting highest standards and requirements.
- Due to the white opaque colour it adapts harmonically to the framework structure.
- It allows the dentist to fix the margins of the inlays reliably by means of a LED lamp once the self-curing has begun. (320-550 nm)
- The excess cement can be easily removed after brief light exposure (approx. 5 seconds).
- It is very user-friendly because of its 2 minutes processing time and 3 minutes curing time
- These properties are suitable for the adhesion of inlays, abutments and attaches. This thixotropic property comforts working particularly en small objects.

### Indications:

The **Kiero Cem White** produces a strong and permanent adhesion between the tooth structure and ceramic, composites zircon dioxide and metal:

- Precious metals, semi-precious metals, non-precious metals
- Zircon dioxide
- Feldspar ceramic and hybrid ceramics
- Harden LC composites



2 x 2,5 ml

## » Dis-Occlusion Device « » Polycarbonate Splint Matrixes NTI-tss «

An easy efficient and time shaving way for the chair side treatment:

- Bruxism (grinding with abrasion of the teeth )
- Chronic headaches (caused by stress, migraines and cluster)
- SADAM (muscles aching)

**You can use it also for:**

- Relaxation masseter and temporal muscles before taking impression
- Easy splinting in case of immediate implementation
- Protections of periodontics
- Patients with low budgets or lack of time

### ¿What means NTI?

NTI-tss means nociceptive trigeminal inhibition and tension suppression system and in the form of a small device customized for each patient is placed on the upper incisors acrylic. Disclusion contains an element which by its particular shape allows a single point of contact to incisor level, launching an reflex inhibition. This reflection intervenes when nociceptive sensors recorded excessive pressure on the incisors. They start then an inhibition of the contraction of the elevator muscles of the jaw. So the NTI-tss system can significantly reduce this parafunctional masticatory muscle hyperactivity taking advantage of the inhibitory reflex of the trigeminal nerve.



► Product Video



### The following Kits are available:

#### NTI-tss Starter Kit

Starter Kit with **3 IGR splints** and **2 increased vertical wide** with termalplastic beads and 5 device boxes

#### NTI-tss Standart Wide Kit

Kit with **5 increased vertical wide splints** with termalplastic beads and 5 device boxes

#### NTI-tss IGR Kit (bigger walls, less height)

Kit with **5 IGR splints** with termalplastic beads and 5 device boxes

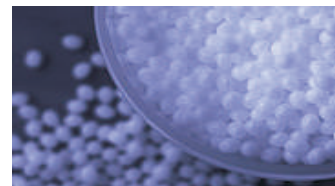
#### NTI-tss Daytime Kit (minor walls)

Kit with **5 Increased vertical wide splints** with termalplastic beads and 5 device boxes

#### NTI-tss Universal

Kit with **5 increased vertical wide splints** with termalplastic beads and 5 device boxes

### How to use the NTI-tss Jig



## EASYWHITE » Bleaching System for all Indications «

For the surgery

### On a Hydrogen or Carbamide Peroxide Base

Two-component material for use in the surgery. The teeth are whitened quickly and reliably. The effect of the treatment is immediately visible. Easywhite can also be applied to non-vital teeth and tetracycline discolorations. It can be applied up to 3 times in a row. Use together with Easywhite Home is recommended. Die pH-neutral mixture guarantees efficient and safe whitening of the teeth.



### Easywhite Office

35% two component hydrogen peroxide for chairside use by means of light or without light

1,5 g powder, 25 ml liquid, 2 mixing tins, 12 brushes



During the bleaching treatment



### Easydam

Light cured gingival protector

3 syringes of 3 g gel, 9 cannulas



Application of Easydam



### Easywhite Ready Starter Kit

30% two component hydrogen peroxide for chairside use

2 x 5 g of gel, 2 x 3 g Easydam, 4 cannulas, 4 mixing tips



Simple application of Easywhite Ready

## KIERO BLOCK » Red Light-cured spacer composite «

- Easy and exact application on the dental model through a cannula for working in a clean waxfree way.
- Because of its red color you can made out it easily and gives you a definite space for the bleaching gel.
- It cures easily with any light unit (320nm – 500nm)
- Repairing of ruptures or pores on the plaster mode
- Easy to apply, high-precision

The kit contains:  
3 syringes of 3 g  
9 cannulas





## Headquarter

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We atend you in:

- German
- Spanish
- English
- French
- Dutch



**Leader in light curing products**

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