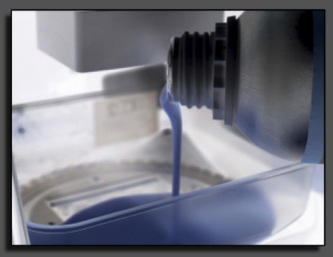
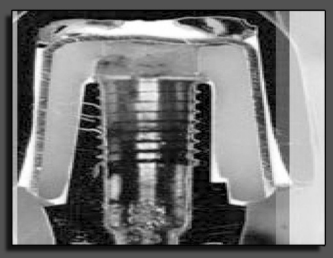
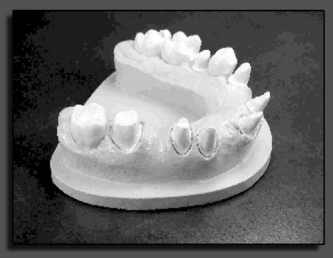






KIERO

KUSS DENTAL

Innovative Products
Made in Europe

DENTAL CATALOGUE

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 25 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 time-saving bite guard splint material Delta-Splint 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

Kuss 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 modem 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

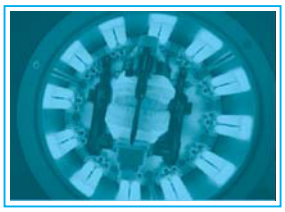
Compliance - i.e. adherence to laws and directives as well as voluntary ethical and moral codes - and country-specific circumstances are of great importance for the national and international launch of our brands. Consequentially, Kuss Dental is certified according to **UNE ISO 9001:2008** by the **German Technical Inspection Agency (TÜV) in the Rhineland**. 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

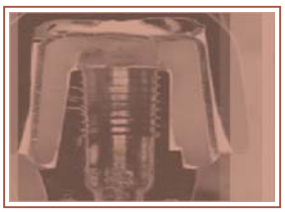
Kuss Dental's business strategy also includes the use and expansion of new marketing channels – such as our new three-language Internet site and Skype. The extensive use of technology by the company was a declared aim from the beginning, thus enhancing our image. In our view this is where the future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

Light-cured Products 4

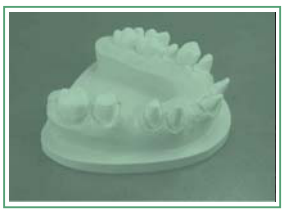


Resins and Ceramics 8

Alloys and Attachments 11



Model Preparation 13



Machines 14

Dental Surgery 19

KIERO FORM

» Universal Light-Cured Modeling Gel «
» Cold modelation without contraction «

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

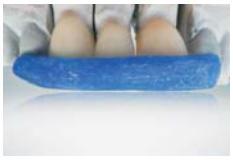
- Kiero Form can be applied directly from the syringe and easily removed from the model
- Curing is carried out with high and low-power UVA light-emitting devices (320 y 500 nm)
- The cured Kiero Form can be combined with commercially available waxes
- Kiero Form combines perfectly with Metacon and Kiero Plast
- Kiero Form burns without residues and is also suitable for ceramic injection technology
- Intra- and extra-orale 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

➤ Product Video

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

KIERO PLAST

» Universal Light-Cured modelling Paste «
» Cold modelation witout contraction «



Kiero Plast is a universal and thixotrop 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

➤ Producto Video

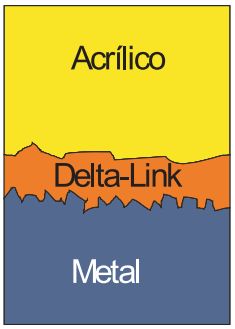
DELTA LINK

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

Delta 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 opaque by the monomer
- Individualised opaque application
- Clasp covering



The kit contains:

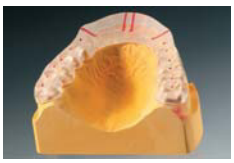
Basic paste	(7 g)
Opaquer, powder*	(10 g)
Opaquer, liquid	(10 ml)

* 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 three 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 shinny. 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 prothesis 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
- 3 g Acrifix incisor in a light-protected syringe
- 5 ml bonder

The kit contains:
3 syringes of 3 g in colours **pink**, **A3** or **incisal**
1 botle 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

¡ The thinnest !

1 tin containing 50 pieces in **pink** colour

➤ 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

¡The most stables !

1 tin containing 50 pieces in **pink** or **clear** colour

➤ Product Video

KIERO CUBETA BONDING

» Bonding for impression trays «
» All kinds of silicones «

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.

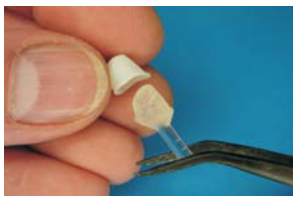
- Avoids that the impression material detaches from the individual impression tray thus guarantying the accurate realization of accurate stone models
- Very easy and fast 2 step application
- Easy to distinguish due to its colour
- Its effect last until 4 weeks

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.



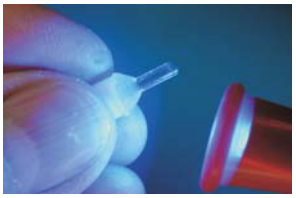
Características

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

1 tar of 30 g paste

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



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.

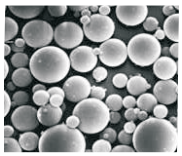
- Low level of polymerisation shrinkage due to the mixing of various powder sizes (micro-beads technique)
- Easy to work and polish due to the high degree of homogeneity (few plaque deposits and reduction in fungal affinity)
- Good biocompatibility thanks to the low residual monomer content
- High level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

Name	Indications	Processing Breadth Flow Phase/Plastic Phase	Mixing Ratio	Polymerisation	Colours
Cold-Curing Resin					
Kiero Resina AUTO	Complete dentures, repairs, temporary dentures, linings	3 min. / 4 min.	10 gr. powder, 5-7 ml bottle	40-50 °C 2-4 bar 6-7 min.	Pink, pink opaque, C34, clear, W34
Hot-Curing Resin					
Kiero Resina TERMO	Complete and partial dentures, linings	2-3 hours	10 gr. weight, 4 ml bottle	Place in water bath, bring to the boil, maintain 20-30 min.	Pink, pink opaque, C34, clear, W34
Self-Curing Resin for Orthodontic Applications					
Kiero Resina ORTO	Spreading and spraying technique		10 gr. powder, 4 ml bottle	37-45 °C 2-4 bar 20-30 min.	Clear, pink Colour pigments in red, blue, green and yellow available
Cold-Curing Micro-Bead Resin					
Kiero Resina AUTO MICROPERLAS	Complete dentures, repairs, temporary dentures, linings	3 min. / 3 min.	10 gr. powder, 4-5 ml bottle	40-50 °C 2-4 bar 6-8 min.	Pink, pink opaque, C34, clear, W34

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 m) 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

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 Proto-Fin 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, pink 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

» Putty/Putty multiuse «

Kneadable lab-silicone with mixing ratio 1:1 in white and dark-grey colours. (Putty-Putty) Final hardness 90 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

Hotbond

» First Dental ZrO_2-Soldering conecting systems «
» White - Chipping-resitent - Aesthetic - High-value «

Union by diffusion

The special bonder is best suited for the connection of zirconium dioxide framework and veneering ceramics, press ceramics and composites as well as the adhesive/based solidifying of zirconium dioxide prosthetics.

1 material for 4 connection applications

Ti - ZrO2

Hot***bond*** tizio fuses together the positive material properties of the most different types of materials; it provides increased possibilities with prosthetic treatments via a durable and safe connection from Ti to ZrO2.

Indications

1. Soldering of full ceramic ZrO2 framework parts for horizontal extension/expansion to make longer-spanned bridge frameworks with the exclusive use of joining elements offered especially for the syste, consisting of primary and secondary part.
2. Soldering of full ceramic ZrO2 framework components for the vertical extension bridge, frameworks where its blank's height is too small and the interalveolar distance is excessive, with the tongue's shapping and groove connection between the basal and incisal section.
3. Soldering of ceramic mouldings made of ZrO2, such as abutments with customised parts for extension or basal tissue trimming for optimisation of the emergency profile.
4. Soldering of base frameworks with shape-optimising contoured parts, which may not however be subjected to bending, torsion or shearing.

High Tech soldering of ZrO2-elements

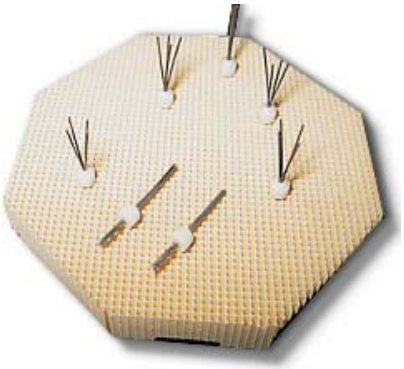
Glass soldering allows multiple zirconium dioxide constructions. Special transparent ceramic soldering for the soldering of sintered zirconium dioxide element.

Ti to Ls2, ZrO2 to Ls2, Ti to ZrO2

The Hotbond fusio system consists of two compatible ceramic components and unites the positive characteristics of different materials together. The ceramic material DCMhotbond fusio connect is a coloured spray and is used to cover the titanium oxides on the joint area. DCMhotbond fusio is used to create a secure connection between Ti and LS2 or ZrO2 and CAD/CAM- milled LS2- veneers.

Kiero Simply Fire

» Individual Stylish Firing Tray«



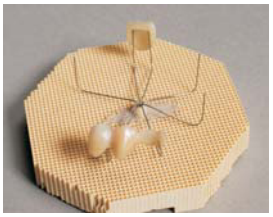
Honeycomb panel with 8 fan pins, ideal auxiliary for all metal-ceramic and full ceramic work.

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 avaiable pins.

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



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

Pin opened (5 units)

Pin unopened (8 units)

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.

Also useful as a holder for characterisation

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 jeringuilla de 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 (carbón free) Ø 0,35 mm (2 m)
Ø 0,50 mm (2 m)

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

Tilite: Ø 0,40 mm (1 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 metallic, fine spray nozzle
- Green

75 ml

KIERO VEST

» 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 µm)
- For any surface
- Is easily removable

400 ml

KIERO ACCESSORIES FOR ZrO_2-SINTERING

Trays of alumina *square* or *round.* There are several sizes and heights. Lid optional.

Zircon dioxide Beads (200 g)
Available in 1 mm and 3 mm

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/mm³
Casting temperature:	1500 °C
Vickers hardness:	285 HV 10
Modulus of elasticity:	190,000 N/mm²
CET:	**14.1 µm/mK**

1 kg

KIERO NC

» NiCr C&B Dental Alloy «

- Berylllium 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/mm³
Casting temperature:	1500 °C
Vickers hardness:	210 HV 10
Resistence:	720 N/mm²
Modulus of elasticity:	220.000 N/mm²
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/mm³
Pouring temperature:	1450°C
Vickers hardness:	360 HV 10
Modulus of elasticity:	230,000

1 kg

KIERO FASTEN

» Universal Holder tool 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 UNIVERSALCLEANER

» 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 TYPE 4 DENTAL STONE

» Short setting time, precise detail reproduction and outstanding edge hardness «

- Kiero Type 4 Dental Stone is a high precision die stone without resin additives
- Easy to scan. The preparation margin is good recognizable
- Hardened after 25 minutes
- Low expansion (less than 0.08%)
- High compressive strength (>12 N/mm^2) “High edge hardness”
- Extended working time: 7 minutes
- Highly fluid "thixotropic" properties

In bags of 4x5 kilos
colour **sahara**

KIERO BUR HOLDER

» All visible and orderly «

Rotating But & Tool Hoder organizes every kind of shank burs

- Capacity for 114 burs in 3 levels
- Rotating; for various workplaces
- Made of highly resistence ABS, grey colour
- Dimension: 17 cm diameter, 10 cm height
- Center cup of a 8 cm depth for small tools of every day use like brushes, pencils, scissors and other utilities

KIERO MICROMOTOR

» Hand Pieces 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 ø 2.35 mm or ø 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

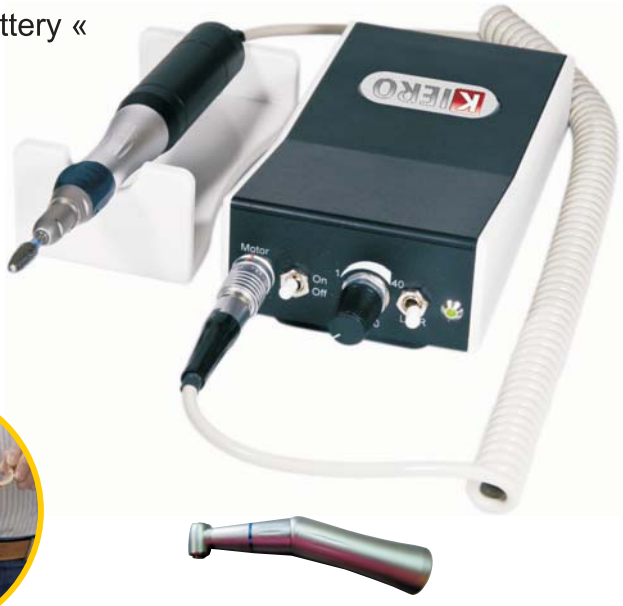
KIERO 3M MICRO MOTOR MOVIL

» 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 th 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 MACHINES

» More than 50 Years of Dental Experience «

Kiero DentaRapid

- Fast grinder
- 250 Watt
- 2,500 - 25,000 rpm
- 19 kg
- Collet 2.35 mm (3 mm optional)

Kiero DentaTrim

- Plaster model tremor
- 480 Watt
- 1,400 rpm
- Models support angle adjustable 60 y 120º
- Diamond-coated disc 280/25.2 x 6 mm

Kiero Vacudent

- Vacuum device for mixing investment compounds and plasters
- 130 Watt
- Wall attachment possible
- 150ml and 425ml beakers included
- Reliable vacuum pump
- Timer with digital display

Kiero DentaGel

- Melting device for duplication materials
- 2 types of device:
  - capacity 8 kg
  - capacity 12 kg
- Thermostatically controlled target and actual temperature

Kiero DentaGraf

- Parallelometer double-armed
- Block-out device with 3 undercut gauges: (0.25/0.50/0.75 mm)
- Lead holder with 10 replacement leads
- 1 scraper

Kiero DentaChorro Combi

- Precision cleaning device for C&B techniques
- 47 kg
- Jets: - blue: 90-125 ym
  - yellow: 35- 40 ym
  - red: 90-150 ym
- Fast and easy replacement of the transparent screen

Kiero PoliClean

- Polishing box with integrated extraction
- 37 kg
- 400 Watt

Kiero Polisher

- Polishing motor
- 13 kg
- 1,500/3,000 rpm
- 200 Watt

Kiero DentaChorro VE2

- Sandblasting device with automatic blasting material circulation and extraction
- 21 kg
- Working air pressure: 0-6 bar
- Air consumption: 180 l/min.

Kiero ProteSil

- Mixing and dosing unit for duplicating silicones
- Two 1 kg containers
- 13 kg

Kiero DentaChorro Automático

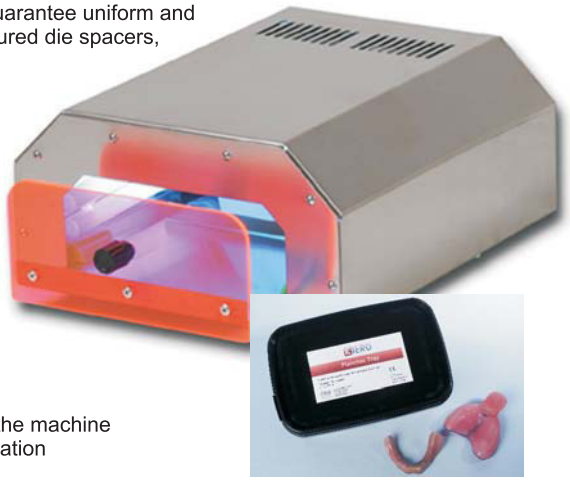
- Fully automatic sandblasting device with material circulation and extraction
- 38 kg
- up to 15 model casts
- Working air pressure: 0-6 bar
- Air consumption: 180 l/min.

All machines are also available for 110 V / 60 Hz

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 ...

UV-active liquid for the fitting of telescopes

10 ml bottle with brush

Technical Data

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

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	Separator

▸ Product Video

LabCam *LC8*

» Analogue HD Camera with 40 x Zoom «

The innovative solution for magnifying the items being worked on in the workplace by means of an industrial videocamera. Can be used to replace magnifying goggles or a microscope. In an ergonomically correct working position the magnified items can be observed and worked on in the viewing direction simultaneously to the original object. Without having to put down the workpiece or tool, the image can be conveniently zoomed in by means of the foot switch. It goes without saying that the high-speed autofocus always produces a sharp picture that is gentle on your eyes.

Magnification, documentation, communication . . .

For the professional user who would like to achieve a maximum of brilliant colour and depth of field, an HD camera with 40 times zoom and the HD monitor Neovo X 19 are used.

The video or photo shot function can be used for documenting, telecommunicating and assuring the quality of the work carried out in the workplace. Also ideal for presentations + training, as details can be visualised to several viewers. For all visual communication tasks in the modern dental laboratory. Recommended components: PC, USB 2.0 connection, VGA frame grabber card.

- 1/3 TYPE CMOS colour video camera
- AF lens - 40 x zoom
- High-speed autofocus
- Screw thread for ancillary lenses
- HD format 16:9
- Electronic shutter control (ESC)
- Backlight compensation (BLC)
- Automatic white balance
- Aperture correction (APC)
- VBS und Y/C Ausgang

Cubeta Cleaner K1

» Fully Automatic Impression Tray Cleaning Machine «

Clean within 2 minutes

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

Easy handling:
White button: 1 minute
Green button: 2 minutes

400 bar water nozzle

The alginate or silicone waste are collected in the skimmer compartment

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:

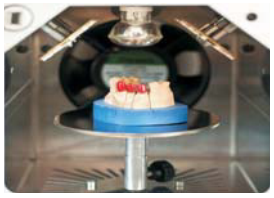
- Very intense light exposure because of the mirror lining of the interior side
- The table is turnable and can be change in height
- Incorporated secure when opening the door the light cuts off
- The timer can be adjusted between 1 to 99 minutes
- The light emission range is from 320 to 550nm LED (320-400nm) 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

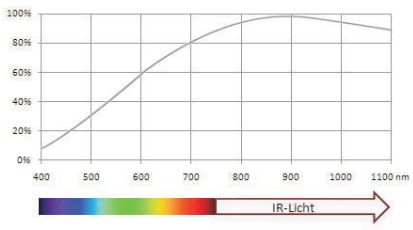
KIERO LIGHT RAPID

» 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 ia 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 IIa
- 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

Fields of Application

- Production of frames and post abutments etc.
- 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

- Product Video

Kiero Ceramica Repair

» Instant repairing of Ceramic Fractures «
» Without etching in mouth «

Kiero Ceramik Repair is the small, universally applicable system for intra-oral and extra-oral repairs of fractured ceramic veneers. No need to etch with phosphoric acid or hydrofluoric acid, but instead gentle working with the brush at the patient's chair. With this kit the production of a veneer, a new crown or bridge can be avoided, irrespective of whether the fracture has reached the metal or not.

Advantages

- No etching with acid (neither hydrofluoric nor phosphoric acid)
- Can be used intra-orally without hesitation
- No silane as bonding agent, nevertheless extremely high bonding strength (17-20 Nm/mm^2)
- Universal and optimal for all standard ceramics (feldspar and glass ceramics, pressed ceramics, zirconium dioxide, aluminium dioxide) and metals (precious metals, non-precious metals, titanium)
- Inexpensive, as the dentist can use the composite with which he/she is acquainted
- Easy to use (only roughening, cleaning, drying and applying the product) and low time requirement (treatment time only approx. 5 min)
- Due to its green colour the material is easily visible. After curing it becomes transparent
- Use of commercially available polymerisation lamps (halogen, LED, plasma light) possible

The kit contains:

- 1 bottle (3 ml) Kiero Repair Primer, self-curing (liquid for the activation of the ceramic or metal surface)
- 1 syringe (1 gr.) Kiero Repair Bond, light-cured (adhesive for bonding with the composite)
- 1 syringe (3 gr.) Kiero Repair Opaque, light-cured (paste for covering the metal surface)

KIERO SEAL

» Gel for Sealing the Contact Area between the Implant and the » Profilaxis contra to periimplantitis «

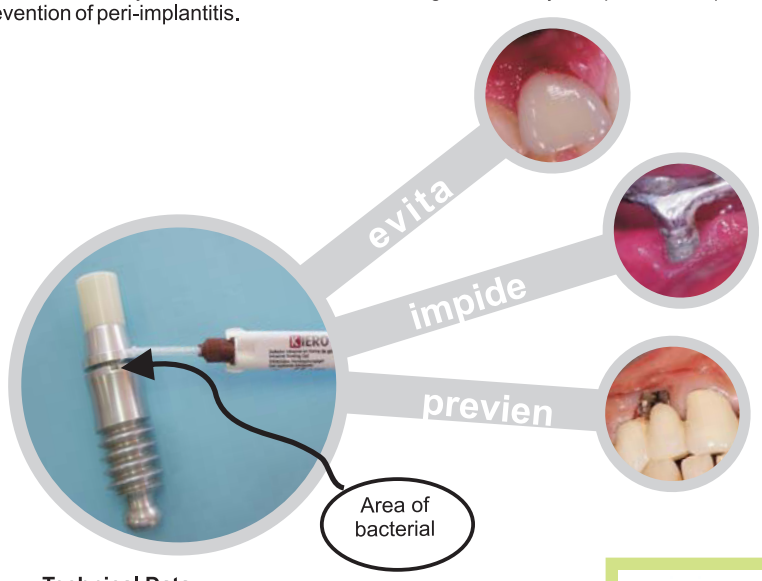
For constructional reasons, all of the known two-part implant systems have a gap (micro-gap) of 4 to 120 µm between the implant and the abutment. In the cavities of the implants, bacteria find an ideal place to multiply. Thanks to its thixotropic properties, the Kiero Seal Gel is able to easily penetrate 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
- Fotid odour
- Unpleasant taste in the mouth

New indicatión of Kiero Seal

- Assure the screw against el loosening



The kit contains:

1 double chamber syringe of 2,5 ml each
15 mixing canulas
15 aplication 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^2
Aplication:	ca. 30 implants
Shelf life:	2 years

▶ Product Video

ACRIFIX

» Light-Cured Dental Precision Resin « » The original in three 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, A3 or incisor

Accessories

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

Kiero Handlight (page 11)

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 treament

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

www.kuss-dental.com

» Desoculsition splint «
» 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:

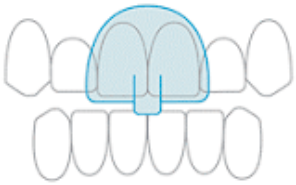
- Relaxation masseter and temporal muscles before taking impression
- Easy ferulization in case of immediate implementation
- Protections of periodontics
- Patients with low budgets or lack of time

¿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 exiting:



NTI-tss Starter **Kit**
Starter Kit with *2 increased vertical and 3 reduced vertical splints with termalplastic beads* and 5 device boxes

NTI-tss **Standart Kit**
Kit with *5 increased vertical splints with termalplastic beads and* 5 device boxes

NTI-tss **Reduced Vertical Kit**
Kit with *5 reduced vertical 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 **Standard Wide Kit**
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

Manual

KIERO

Consumibles
SPOTREBNÝ MATERIÁL
CONSUMABILE
Verbrauchsartikel
Eksploatacinės medžiagos
SUNTSIKORRA
RUR
Materiali di consumo
eksploatacyjne
Потрошни
Forbruksmateriell
المواد الاستهلاكية
उपभोग्य
KELLÉKEK
מתכלים
消耗品
Consommables
耗材
Förbrukning
Kulutushyödykkeet
Consumer goods
Materiały
Αναλώσιμα
სახარჯი მასალები
Консумативи
HJÆLPEMATERIALER
Sarf
소모품
Verbruiksartikelen
CONSUMIBLES
Расходные материалы

Headquarter

Kuss Dental, S.L.
c/ Isabel Colbrand, 10 - Nave 147
E-28050 Madrid - Spanien
Tel. + 34 91 736 23 17
Fax + 34 91 736 23 18
www.kuss-dental.com
info@kuss-dental.com

We atend you in:

- German
- Spanish
- English
- French
- Dutch

Leader in light curing products

INNOVATIVE PRODUCTS
MADE IN EUROPE
Dental Products with Ideas
for Dental Laboratory and Surgery
Sales in Europe, Asia,
Africa, Central and South America
KUSS
DENTAL
Innovative Products
Made in Europe
C/ Isabel Colbrand 10 Nave 95
E-28050 Madrid - España
+ 34 91 736 23 17
+ 34 91 736 23 18
+ 34 608 578 686
info@kuss-dental.com
skype: kuss-dental
www.kuss-dental.com
Chamber Trust Seal
TIENDA ONLINE