



Prosthetics 2007 / 2008

Customer number:

Please insert your Dentaaurum customer number.
For faster service, we kindly ask you to use your
customer number when ordering.

Dentaurum – a good feeling

Dear Customer,

whilst reading through the new dental catalogue you will find a large selection of brand new products as well as newly improved products in the field of crown and bridgework, bonding ceramics, model cast alloys and machines – better products at excellent value.

We find ourselves currently in a twilight zone. The present will soon become the past. Changes require new concepts and ideas, however our top priority remains the welfare our patients - the quality of our work is unchanged. Quality is never free of charge! In our opinion it is fatal to economize at the expense of quality. Our **Quality Products „Made in Germany“** at excellent value are still unbeatable. We plan to keep a tight hold on this quality standard. In addition to this we offer you our support in word and deed, whether by telephone or in person within your laboratory, our specialists are pleased to advise you.

Discover the interesting product highlights in this catalogue such as the new model casting investment materials rema® Exakt F and rema® dynamic S and the low fusing bonding ceramic dentCeram LF for both PFM and full ceramic crowns. As for the machines, see the compact high frequency casting machine Megapuls Compact and the state-of-the-art duplicating machine Dublitherm Compact.


May we especially highlight our homepage www.dentaurum.de where you will find an extensive range of information which is constantly updated.

We look forward to receiving your orders and we will ensure as always that they are quickly and reliably processed. We also look forward to receiving your feedback, which helps us to make further improvements.

Best regards from Ispringen

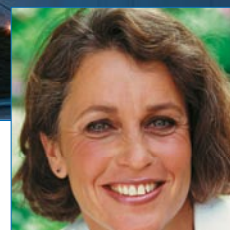
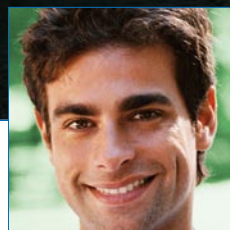
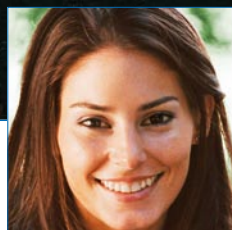
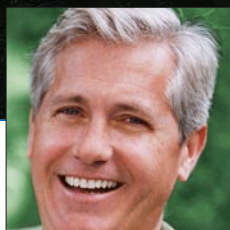
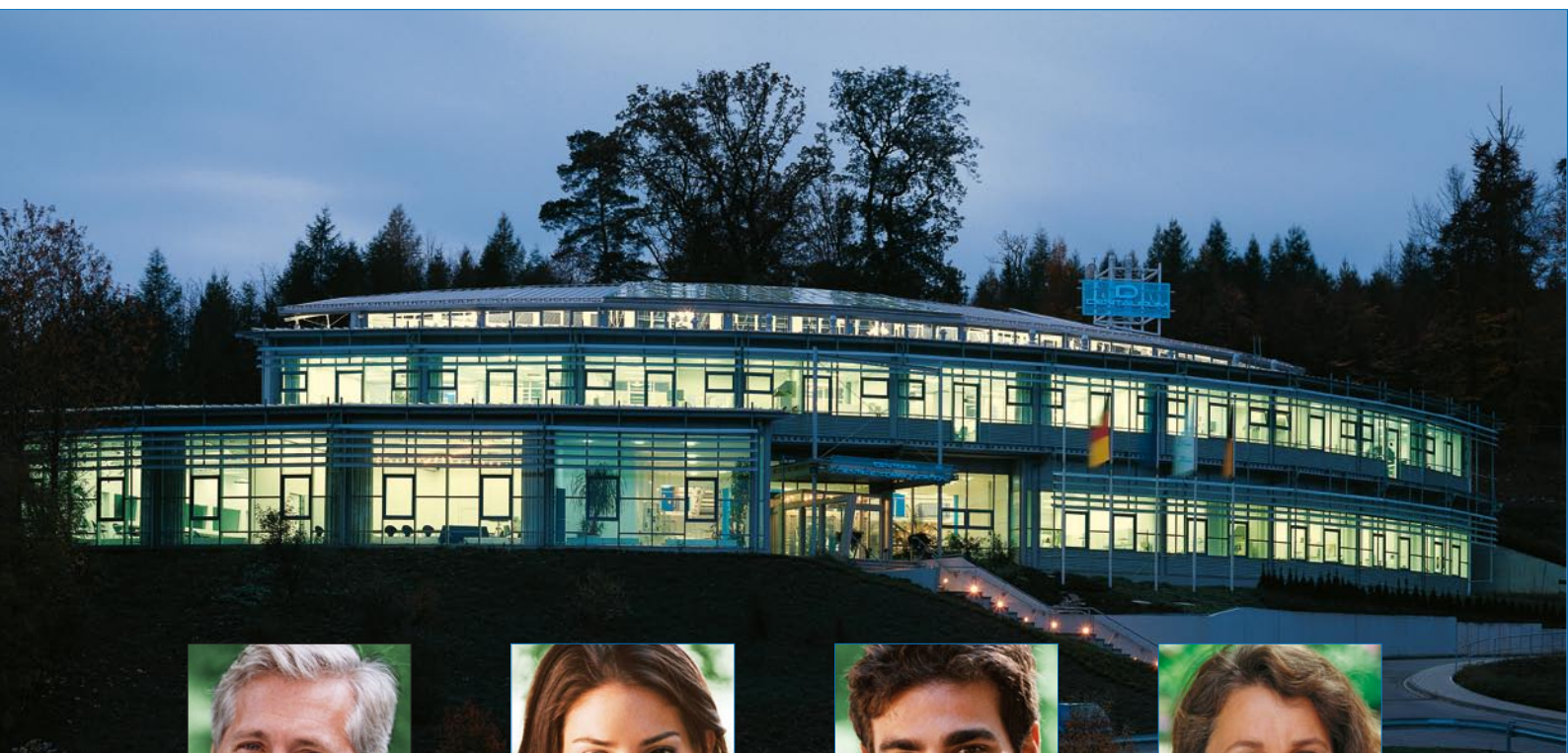


Mark Stephen Pace
CEO Dentaurum Group



Axel Winkelstroeter
CEO Dentaurum Group

Workshops in Ispringen



Center for Dental Communications

We offer you ...

... interesting prosthetic training such as **crowns and bridges, ceramics, metal denture course I + II, the conical crown denture cast in one piece without duplication, laser welding workshop**

and much more ...

Just order our current course program available in German, English or Spanish.

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Our current course program can also be found under **www.dentaurum.de**.

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Information on material contents and safety data +49 72 31/803 193

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• Tiolox Implants info@dentaforum-implants.de



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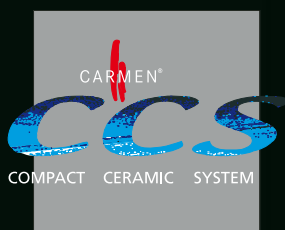
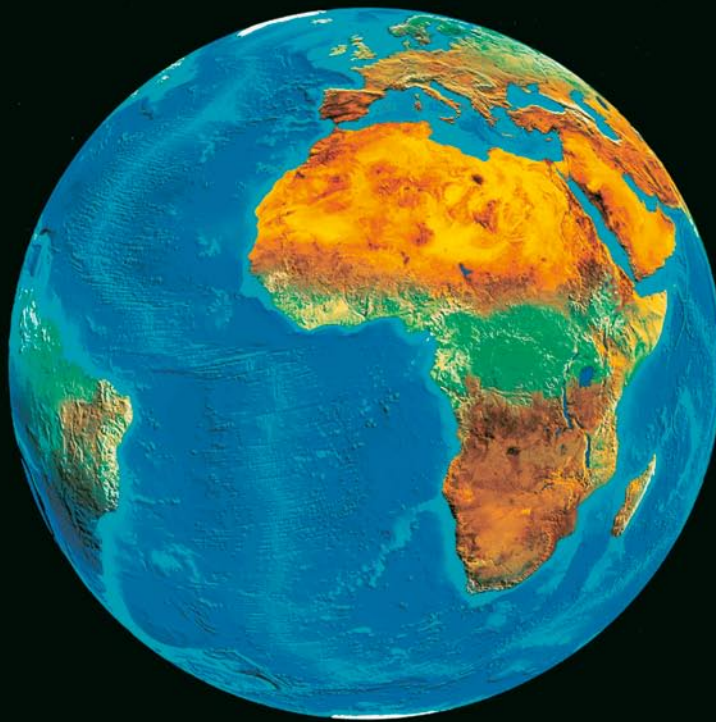
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Discover the World of Ceramics



The World of Ceramics at Dentaureum

For a whole range of Indications

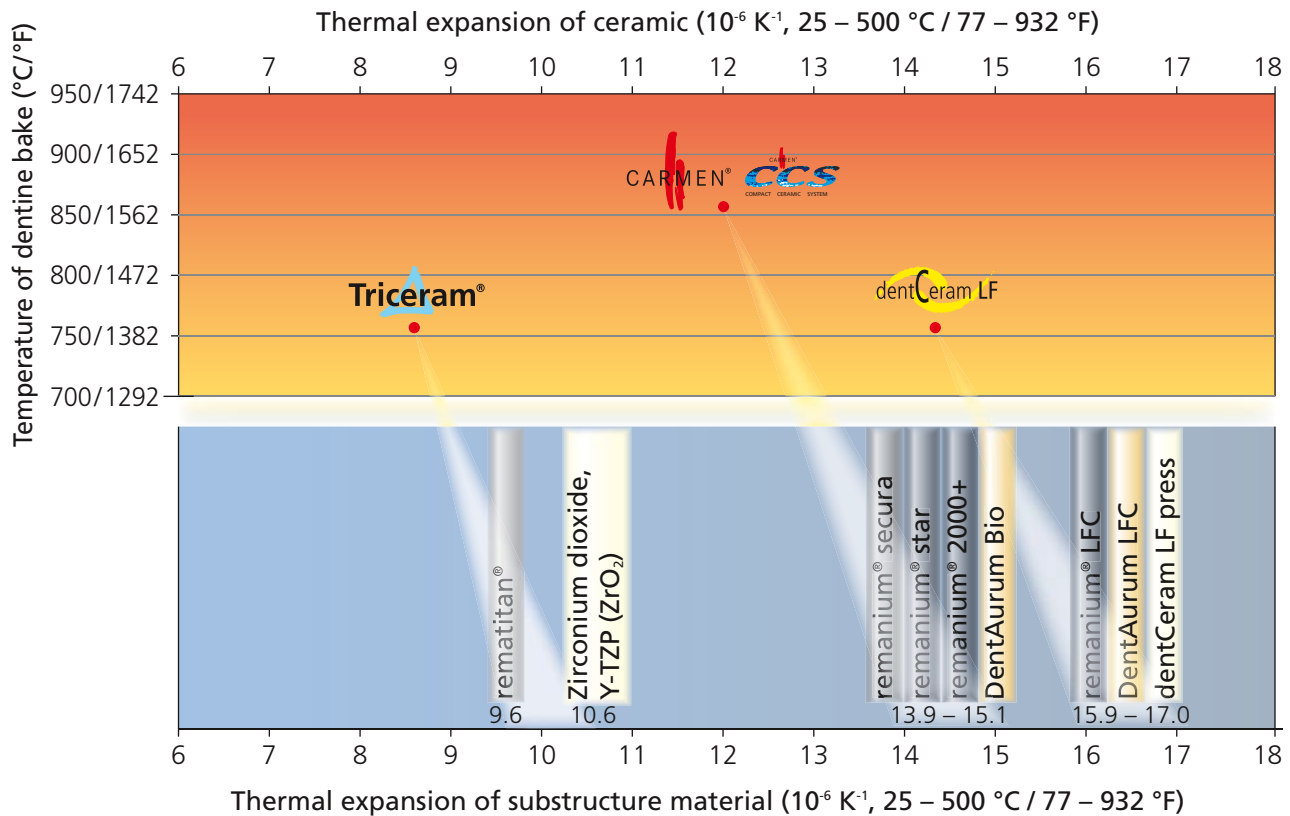
Dentaureum has bonding ceramics to suit the entire range of modern sub-structure materials from full ceramic to metal bonding ceramic. Dentaureum ceramics are made of pure technical raw materials and are manufactured, synthesized and processed using state-of-the-art glass ceramic production methods. The specialized raw materials and production methods ensure a consistent and extraordinarily high characteristic quality.

Excellent Color Stability

The Thermocoloration Process

This process has been exclusively developed for Dentaureum ceramics and guarantees homogenous and timeless shade stability even after multiple firings. The colour reaction of the pigments is obtained during the thermocoloration process. This is the reason why the ceramic shades remain stable especially during dental technical processes. There is no change in colour even when the object is fired often. Transparency and opalescence also remain stable throughout.

The correct solution for every indication



Optimal layering and sculpting characteristics

Simple and Safe processing

It is the ideal sculpting characteristics which enable quick, easy and reliable layering without the build-up subsiding. The layering techniques of all Dentaaurum's ceramic systems are identical, whether Triceram®, CCS or dentCeram LF. This unison saves you precious time and allows you to reach your goal quickly and consistently.

Quality made by Dentaaurum

It speaks for itself

All components in Dentaaurum's ceramic systems have been developed to suit each other perfectly in order to guarantee the highest possible reliability. The ceramic systems Dentaaurum offers, which have been developed and produced in-house, boast more than 10 years of practical experience. Customer satisfaction is our best confirmation.

dentCeram LF

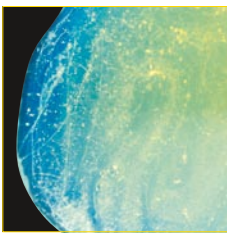
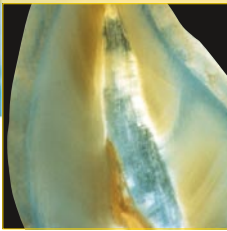
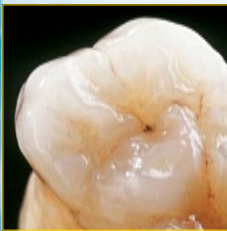


NEW

Large Spectrum of Use

PFM and full ceramic

Dentaurum's new ceramic system is extremely versatile and can be used for many different purposes in the dental laboratory. The low fusing ceramic dentCeram LF is suitable for bonding to precious metal alloys (CTE $15.9 \times 10^{-6} \text{ K}^{-1}$ to $17 \times 10^{-6} \text{ K}^{-1}$) such as DentAurum LFC or non-precious metal alloys such as remanium® LFC. In addition to this the new press ceramic system, dentCeram LF press from Dentaurum, offers an array of possibilities in metal-free ceramic work.



A low fusing ceramic system for two areas of use

High ceramic stability

Quick and reliable processing

dentCeram LF has excellent sculpting characteristics which enables the technician to build-up the ceramic quickly, easily and consistently. The layered build-up is extremely stable and allows swift workmanship. This high stability has a positive effect on firing; the material does not subside and is not prone to rounded edges. In addition to this, the CTE of dentCeram LF does not increase even after multiple firing.



Quality made by Dentaaurum

It speaks for itself

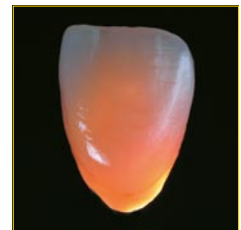
All components in Dentaaurum's ceramic systems have been developed to suit each other perfectly in order to guarantee the highest possible reliability. With their in-house ceramic production, Dentaaurum can successfully offer more than 10 years of well proven ceramic systems such as the special ceramic Triceram® for Zirconium oxide and Titanium or the metal bonding ceramics CARMEN® and CCS.

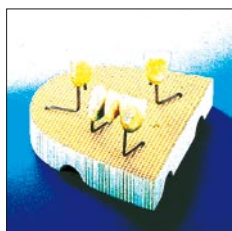
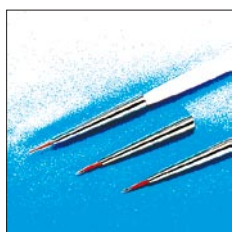
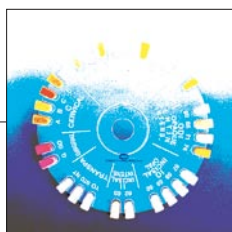
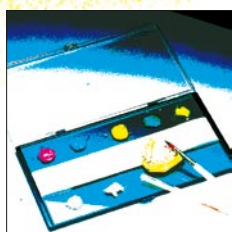
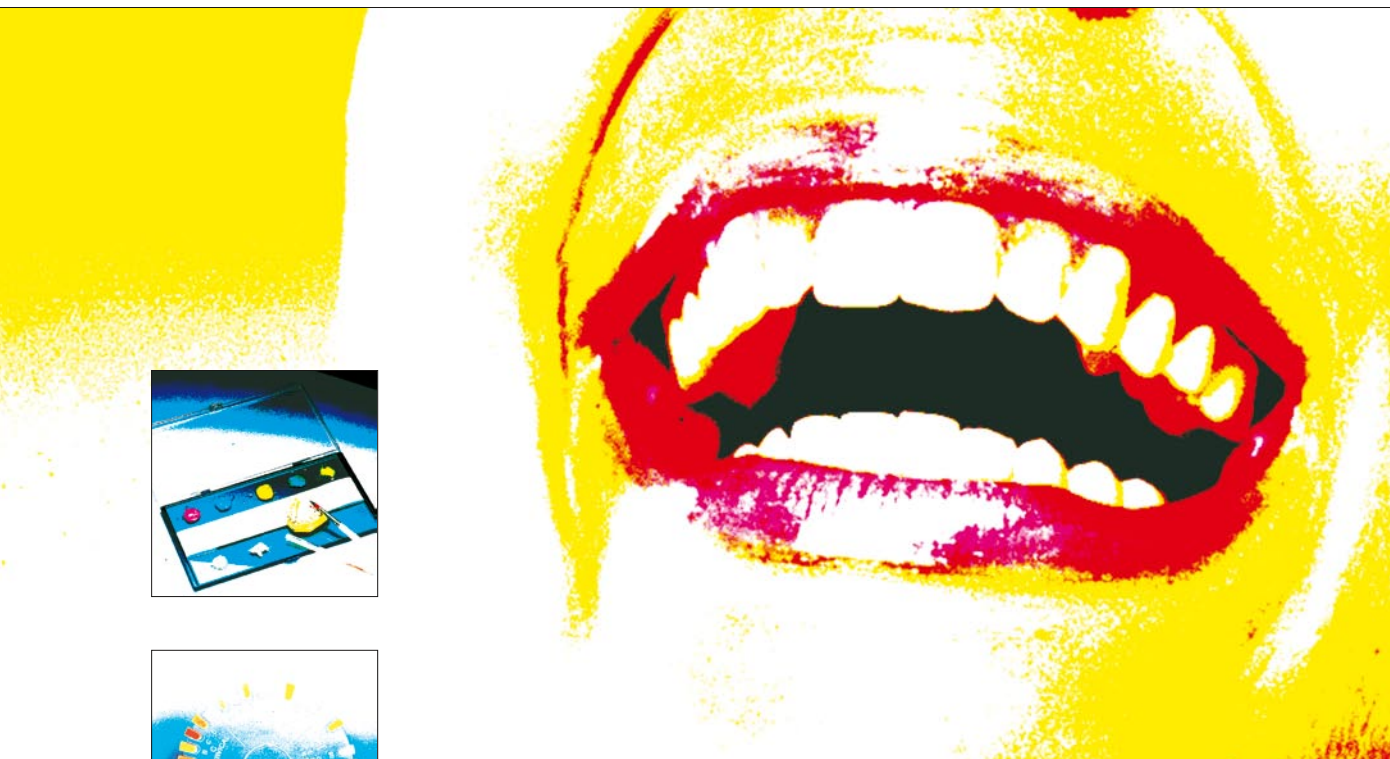
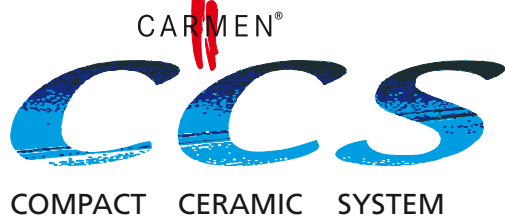


Excellent colour brilliance and shade stability

Perfect aesthetic results

The thermocoloration process, which has been exclusively developed for Dentaaurum ceramics, guarantees homogenous and timeless shade stability even after multiple firings. There is no change in colour even when the object is fired often.





Easy build-up technique

Only a few steps to successful results

The new CCS System from Dentaureum is a manageable ceramic program which contains only a small number of essential components. Using simple build-up techniques it is possible to reproduce teeth resembling that of natural dentition.

New evaluation of shade components

Opaque – Dentin – Incisal

With the new opaque, dentin and incisal colors it is possible to achieve perfect aesthetical results, according to the VITA* shade guide, in just a few steps by using simple, standard build-up techniques. Additional colors are not necessary.

* VITA is a trademark of the company VITA Zahnfabrik, Bad Säckingen

Simply brilliant. Brilliantly simple.

Compact firing program

Increase your laboratory's productivity

We have optimized the length of the various firing stages which saves you precious working time and improves productivity in your laboratory. The high starting temperature at 550°C/1,022°F and fast rate of heat increase of 65 K·min⁻¹ helps you to reach your goal.

Exceptional, consistent and high material stability

Working safety

During the production of CCS, the raw product is put under extreme conditions such as thermal treatment and the thermo coloration process. Before it is ready for use, CCS has already been tested beyond the normal applicatory requirements.



Staying independent and flexible

Freedom of choice with the alloy

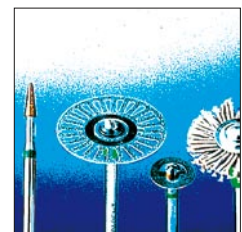
CCS is compatible with a whole range of bonding alloys. CCS is especially suited to precious and non-precious dental alloys with a coefficient of thermal expansion (CTE) $\alpha = 14.1 \times 10^{-6}/K$ bis $15.3 \times 10^{-6}/K$ bei 25–600°C/77–1112°F and $13.9 \times 10^{-6}/K$ bis $15,1 \times 10^{-6}/K$ bei 25–500°C/77–932°F.



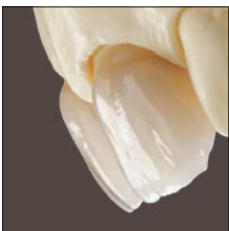
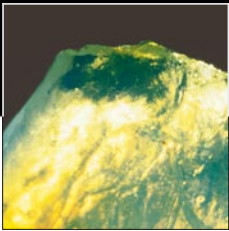
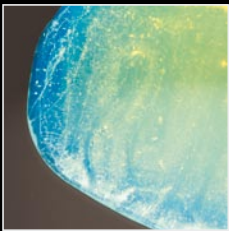
Perfectly in tune with one another

Completely compatible with CARMEN®

The new CCS system is completely compatible with the well proven CARMEN® ceramic system and can be easily complemented with CARMEN® product components. The difference lies in the simplified build-up technique (Opaque – Dentin – Incisal) due to the new ceramic coloration.



CARMEN®



The thermo coloration process

Excellent color stability

The thermo coloration process, developed exclusively for the coloration of the Dentaurum ceramic materials, guarantees homogenous and lasting color, even after multiple firings.

Why the micro-crystalline structure is special

Natural light refraction

The micro-crystalline structure enables a natural diffraction and transmission of light to occur within the material. It is therefore possible to reproduce a tooth with the same aesthetical and optical characteristics as its natural model.

Symbiosis of Aesthetics and Safety

Exceptional, consistent and high material stability

Working safety

During the production of CARMEN®, the raw product is put under extreme conditions such as thermal treatment and the thermo coloration process. Before it is ready for use, CARMEN® has already been tested beyond the normal applicatory requirements.

Many years of experience

The basis of great reassurance

Only CARMEN® can offer this kind of longstanding safety and reliability, with its captivating brilliance of color. Many years of clinical experience guarantee, CARMEN® is a product of exceptional quality.



Staying independent and flexible

Freedom of choice with the alloy

With CARMEN® you are not forced into a system. CARMEN® is compatible with a whole range of bonding alloys within a CTE range of $14.1 \times 10^{-6}/K$ to $15.3 \times 10^{-6}/K$ at $25-600^{\circ}C/77-1,112^{\circ}F$ and $13.9 \times 10^{-6}/K$ to $15.1 \times 10^{-6}/K$ at $25-500^{\circ}C/77-932^{\circ}F$. CARMEN® is especially suited to remanium® star and other Dentaurem alloys, and due to its low firing temperature it is also compatible with Galvanogold and the temperature sensitive, high noble, bio-compatible alloys.

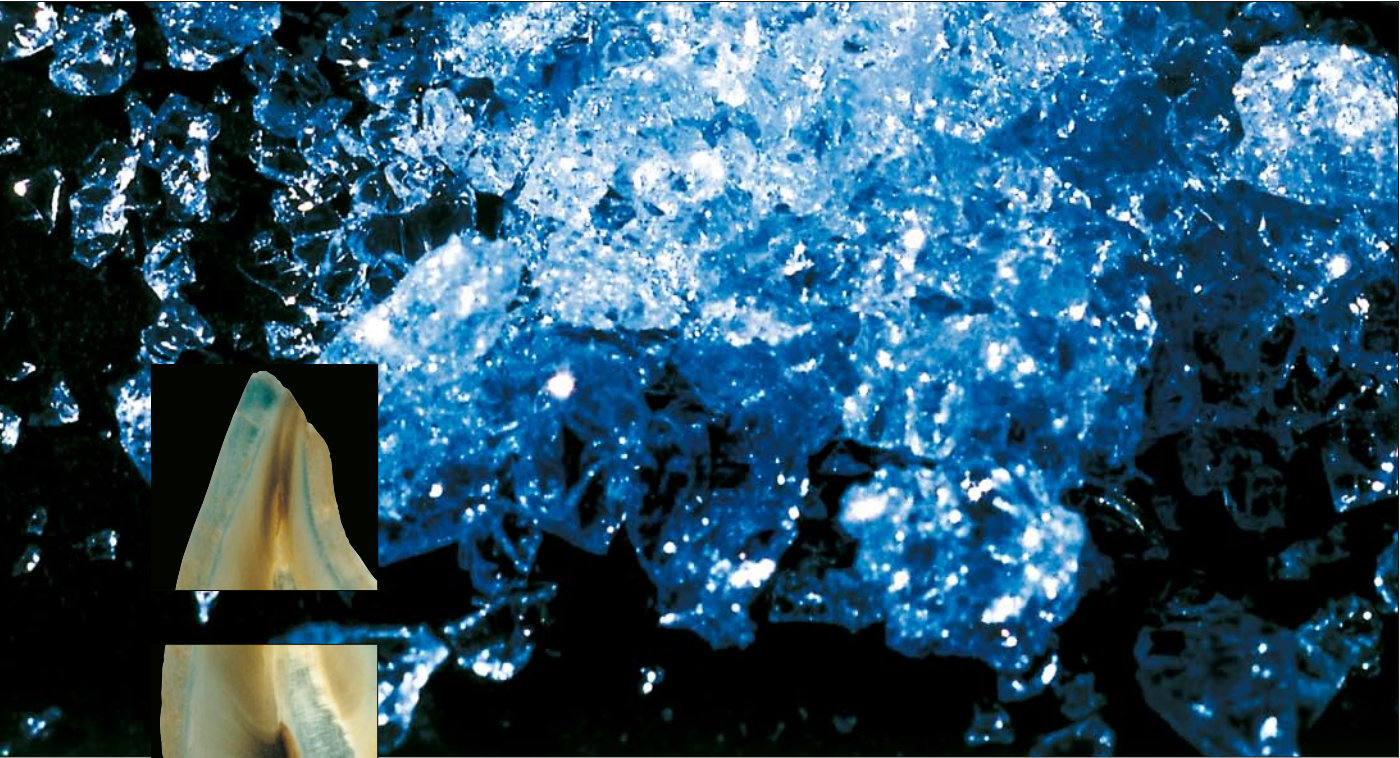


In-house research, development and production

Highest quality standard

A specialist team, consisting of material scientists and dental technicians, in the Dentaurem Group develops ceramic products and new innovative product technologies.





Triceram® for zirconium dioxide and titanium

Two materials – one ceramic

Zirconium dioxide and titanium are well proven materials in dentistry. Triceram® produces first-class results on both materials. The option of using Triceram® on two different materials proves cost-effective as only one ceramic system is required.

Extremely high bond strength

Assurance and long-lasting pleasure from a new smile

Triceram® bonder produces a bond strength which far exceeds the required standard. This eliminates the problem of inadequate bond strength which has always been associated with titanium ceramics both on zirconium oxide and titanium. Various universities in Germany and abroad have carried out extensive scientific tests which verify the excellent bond strength of Triceram®¹.

The ceramic for CAD/CAM Technology

Natural shade effect with remarkable luminescence

Extraordinary vitality and brilliance of color

AsTriceram® is a synthetic bonding ceramic, it has the advantage of producing different shade effects. Due to the chameleon effect of Triceram®, the light flows through the restoration enabling the shades of the restoration and residual dentition to blend.

High shape and shade stability during firing

Reassurance for the dental technician

Triceram® guarantees high shape and edge stability, even when fired several times. The synthetic components have a positive effect ensuring that the depth of shade remains unaltered after several firings.



Excellent stability

The ability to work quickly without a reduction in quality

The excellent stability of Triceram® allows it to be built up quickly, easily and reliably.



Short, simple firing without slow cooling

Improves the economy of your laboratory

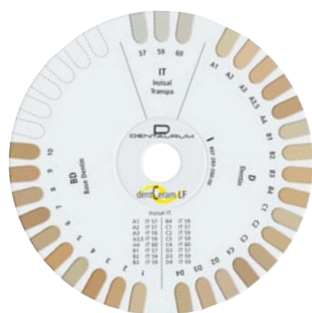
The optimum composition of the ceramic allows a simple firing procedure without slow cooling. This reduces fabrication time and costs. Only the firing programme is different when bonding Triceram® to zirconium oxide.



- ¹
- University of Freiburg, Germany, Prof. Dr. Kappert H.F.: Bruchfestigkeit und Frakturverhalten von DCS-gefrästen Frontzahnkronen nach Verblendung mit Vitadur D und Triceram®, ZWR, 2001: 134-139, (DC-Zirkon®)
 - University of Nantes, France, Praud C.: Dissertation: Rapport de la Céramique Triceram® à la réalisation de prothèses céramo-métalliques sur Titane: 1999
 - University of Munich, Germany, Bader R.-D., Aschl I., Rammelsberg P. Pospiech P.: IADR Abstracts 1021: Improved bond strength of low fusing ceramics to titanium: 2000
 - University of Zurich, Switzerland, Dr. Irena Sailer, Dr. Claudia Holderegger, Dr. Roland Jung, ZTM Ana Suter: Zirkonoxid-Verblendkeramiken: Farbstabilität und technische Verarbeitung, Quintessenz Zahntechnik 5/2005, S. 498-512
 - University of Modena, Italy, ZTM Bruno Marziali, Dr. Giuliano Malaguti und Prof. Sergio Bortolini: Titan und Zirkoniumdioxid, Quintessenz Zahntechnik 6/2006, S. 632-647
 - University of Zurich, Switzerland, PD Dr. med. dent. Dr. rer. nat. Jens Fischer, Dipl.-Ing. (FH) Bogna Stawarczyk: Zirkoniumdioxid und Titan: Zwei Gerüstwerkstoffe – eine Verblendkeramik, DZW-Zahntechnik 12/06, S. 20-22

dentCeram LF Product components and shade guides

Products	Components
PO paste opaque	Base, A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, gingival, orange, Bleach CO 1
SM Shoulder	A, B, C, D, white, transparent
BD Base dentin	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
D Dentin	A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4
Bleach	Bleach CO 1, Bleach CD 1, 2, Bleach CI 1
CD Chroma Modifier	A, B, C
IFD Intensive Fluo Dentin	creme, yellow, orange, orange plus
IT Incisal transparent	57, 59, 60
IO Incisal opalescent	57, 59, 60
NT Neutral transparent	NT
CM Correction	CM
G, GD Gingival	light, dark
ST Stains LF	A, B, C, 0, 1, 45, 9, 11, 14, 15
Liquids	Paste, Shoulder material LF, Stains Universal, modelling LV standard universal, SM-Isofit



280-300-00	1 piece
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I Basic materials dentCeram LF shade guide



280-301-00	1 piece
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II Effect materials dentCeram LF shade guide

dentCeram LF assortments and individual products

dentCeram LF Starter set

contains:

- 1 Paste opaque base
- 1 Paste opaque A3
- 1 Base dentin 2 (A3)
- 1 Dentin A3
- 1 Incisal transparent 59
- 1 Neutral transparent
- 1 Modelling liquid LV-Universal
- 1 Universal paste liquid
- 1 Opaque brush

280-113-00

1 piece



dentCeram LF Master set

contains:

- 1 Paste opaque base
- 16 Paste opaque A1–D4
- 2 Paste opaque gingival, orange
- 16 Dentin A1–D4
- 10 Base dentin BD1–10
- 3 Incisal transparent IT57–60
- 3 Incisal opalescent IO57–60
- 1 Neutral transparent
- 9 Shoulder material
- 3 Chroma Modifier
- 4 Intensiv Fluo Dentine
- 1 Correction material
- 2 Gingival material
- 10 Stains LF
- 1 Modelling liquid LV-Universal
- 1 Universal Pastenflüssigkeit
- 1 Shoulder material liquid LF
- 1 Stains universal liquid
- 1 SM-Isofit
- 1 Shade guide basic materials
- 1 Shade guide effect materials
- 1 Opaque brush

280-112-00

1 piece



dentCeram LF press

Pressable ceramics

dentCeram LF press assortment

contains:

- 10 x 3 Dentin Pellets
- A 2, A 3, A3.5, B 2, B 3, C 2, D 2 2 g each
- 1 x 3 Bleach Pellets 2 g each
- 5 x 3 Transpa Pellets 2 g each

All shades are also available in single packets containing three pellets.

281-111-00

1 piece



dentCeram LF press invest Investment for pressable ceramics

260-350-00

2.5 kg (25 x 100 g)

dentCeram LF press invest Mixing liquid

260-355-00

1 l

dentCeram LF Individual products



Paste opaque base	282-500-10	3 g
Paste opaque A1	282-311-10	3 g
Paste opaque A2	282-312-10	3 g
Paste opaque A3	282-313-10	3 g
Paste opaque A3.5	282-314-10	3 g
Paste opaque A4	282-315-10	3 g
Paste opaque B1	282-321-10	3 g
Paste opaque B2	282-322-10	3 g
Paste opaque B3	282-323-10	3 g
Paste opaque B4	282-324-10	3 g
Paste opaque C1	282-331-10	3 g
Paste opaque C2	282-332-10	3 g
Paste opaque C3	282-333-10	3 g
Paste opaque C4	282-334-10	3 g
Paste opaque D2	282-342-10	3 g
Paste opaque D3	282-343-10	3 g
Paste opaque D4	282-344-10	3 g
Paste opaque gingival	282-685-10	3 g
Paste opaque orange	282-670-10	3 g
Chroma opaque CO 1 Bleach	282-301-10	3 g

PO Paste opaque

The paste opaque for dentCeram LF can be used for all precious and non precious metal alloys including electroformed gold.

It has the following advantages:

- Direct use (no mixing necessary)
- No long cooling required
- thin layer thickness
- produces a good solid cover over the metal structure
- light, uncomplicated application
- silky finish
- recommended liquid: Universal paste liquid

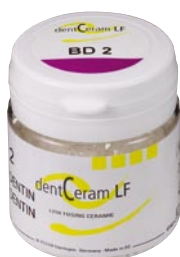
The paste opaque base has been specially developed for precious metal alloys containing copper and therefore is able to completely cover the metal structure.



Shoulder material A	283-110-40	20 g
Shoulder material B	283-120-40	20 g
Shoulder material C	283-130-40	20 g
Shoulder material D	283-140-40	20 g
Shoulder material white	283-150-40	20 g
Shoulder material transpa.	283-199-40	20 g

SM Shoulder

The dentCeram LF system offers four different shoulder materials which are divided into the shades A, B, C and D. All color variations from A1 to D4 can be achieved by mixing the shoulder material "white" accordingly. For more transparency of the shoulder the shoulder material "transparent" should be added. For mixing, use the shoulder material liquid LF only.



Base dentin 1	284-111-40	20 g
Base dentin 1	284-111-60	40 g
Base dentin 2	284-113-40	20 g
Base dentin 2	284-113-60	40 g
Base dentin 3	284-114-40	20 g
Base dentin 3	284-114-60	40 g
Base dentin 4	284-121-40	20 g
Base dentin 4	284-121-60	40 g
Base dentin 5	284-123-40	20 g
Base dentin 5	284-123-60	40 g
Base dentin 6	284-131-40	20 g
Base dentin 6	284-131-60	40 g
Base dentin 7	284-133-40	20 g
Base dentin 7	284-133-60	40 g
Base dentin 8	284-142-40	20 g
Base dentin 8	284-142-60	40 g

BD Base dentin

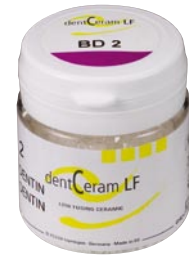
- diffusing effect
- three-dimensional effect of depth when completed
- complementing the actual tooth shade even in an unfavourable space situation
- intensifies depth reflection

dentCeram LF Individual products

BD Base dentin

- diffusing effect
- three-dimensional effect of depth when-completed
- complementing the actual tooth shade-even in an unfavourable space situation
- intensifies depth reflection

Base dentin 9	284-143-40	20 g
Base dentin 9	284-143-60	40 g
Base dentin 10	284-144-40	20 g
Base dentin 10	284-144-60	40 g



D Dentin

- 16 dentin colors
- easy handling
- stability of shape and edges
- bake stability
- low shrinkage
- stability of color
- prismatic effect
- natural fluorescence

Dentin A1	284-211-40	20 g
Dentin A1	284-211-60	40 g
Dentin A2	284-212-40	20 g
Dentin A2	284-212-60	40 g
Dentin A3	284-213-40	20 g
Dentin A3	284-213-60	40 g
Dentin A3.5	284-214-40	20 g
Dentin A3.5	284-214-60	40 g
Dentin A4	284-215-40	20 g
Dentin A4	284-215-60	40 g
Dentin B1	284-221-40	20 g
Dentin B1	284-221-60	40 g
Dentin B2	284-222-40	20 g
Dentin B2	284-222-60	40 g
Dentin B3	284-223-40	20 g
Dentin B3	284-223-60	40 g
Dentin B4	284-224-40	20 g
Dentin B4	284-224-60	40 g
Dentin C1	284-231-40	20 g
Dentin C1	284-231-60	40 g
Dentin C2	284-232-40	20 g
Dentin C2	284-232-60	40 g
Dentin C3	284-233-40	20 g
Dentin C3	284-233-60	40 g
Dentin C4	284-234-40	20 g
Dentin C4	284-234-60	40 g
Dentin D2	284-242-40	20 g
Dentin D2	284-242-60	40 g
Dentin D3	284-243-40	20 g
Dentin D3	284-243-60	40 g
Dentin D4	284-244-40	20 g
Dentin D4	284-244-60	40 g



Standard Incisal materials:

Tooth shade	Incisal material	Tooth shade	Incisal material
A1	IT 57	B4	IT 59
A2	IT 57	C1	IT 59
A3	IT 59	C2	IT 59
A3.5	IT 59	C3	IT 59
A4	IT 60	C4	IT 60
B1	IT 57	D2	IT 59
B2	IT 59	D3	IT 59
B3	IT 59	D4	IT 59

With IT 58, it is possible to achieve additional grey effects in the area of the posteriors.

Bleach

- white and light bleaching materials
- for patients with lighter and previously bleached tooth shades

Chroma Opaque CO 1 Bleach	282-301-10	3 g
Chroma Dentin CD 1 Bleach	284-251-40	20 g
Chroma Dentin CD 2 Bleach	284-252-40	20 g
Chroma Incisal CI 1 Bleach	284-701-40	20 g



dentCeram LF Individual products



Chroma Modifier A	284-410-40	20 g
Chroma Modifier B	284-420-40	20 g
Chroma Modifier C	284-430-40	20 g

CD Chroma Modifier

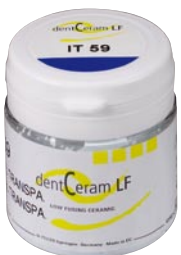
- To control the intensity of the individual tooth shade
- Increases the shade intensity with the tooth body even within thin ceramic layers



Intensiv Fluo Dentin creme	284-751-40	20 g
Intensiv Fluo Dentin yellow	284-760-40	20 g
Intensiv Fluo Dentin orange	284-770-40	20 g
Intensiv Fluo Dentin orange plus	284-773-40	20 g

IFD Intensiv Fluo Dentin

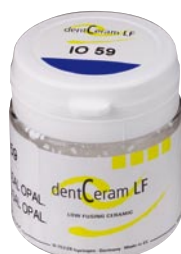
- fluorescent bold dentin material
- controls the brightness within the build-up



Incisal transparent 57	285-150-40	20 g
Incisal transparent 57	285-150-60	40 g
Incisal transparent 59	285-160-40	20 g
Incisal transparent 59	285-160-60	40 g
Incisal transparent 60	285-170-40	20 g
Incisal transparent 60	285-170-60	40 g

IT Incisal transparent

- standard incisal material
- application in incisal area



Incisal opalescent 57	285-650-40	20 g
Incisal opalescent 59	285-660-40	20 g
Incisal opalescent 60	285-670-40	20 g

IO Incisal opalescent

- for incisal alternative layer
- opalescent bluish effect in reflected light, slightly orange effect in permeated light
- intensifies natural refraction of light
- application in incisal area



Neutral transparent	285-299-40	20 g
Neutral transparent	285-299-60	40 g

NT Neutral transparent

Application as required – depending on patient case.



Correction material	287-199-10	3 g
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CM Correction

Use for correcting minor defects (contact points, occlusion area).

- Baking temperature 745 °C / 1373 °F

dentCeram LF Individual products

G, GD Gingival

Gingival materials G (light) and GD (dark)

- For the build-up and reconstruction of gingiva and papilla situation
- Compensates for gingiva defects

Gingival material light	288-110-40	20 g
Gingival material dark	288-120-40	20 g



ST Stains LF

To obtain modifications in shade. They can be laid in and mixed with the materials. Stains LF can be mixed up to 10 mass% with the ceramic materials (SM, BD, D, IT, IO, NT + G). If they are mixed with stains universal liquid, these materials are also suitable for painting the surface of the ceramic material.

This material has highly individual characteristics and special depth of color.

● Stains LF A	286-110-10	3 g
● Stains LF B	286-120-10	3 g
● Stains LF C	286-130-10	3 g
● Stains LF 0 neutral	286-199-10	3 g
○ Stains LF 1 white	286-150-10	3 g
● Stains LF 45 orange plus	286-171-10	3 g
● Stains LF 9 blue	286-180-10	3 g
● Stains LF 11 olive-green	286-193-10	3 g
● Stains LF 14 red brown	286-168-10	3 g
● Stains LF 15 black	286-198-10	3 g



Liquids

Stains universal liquid

- for mixing with Stains LF
- for the glaze bake

Shoulder material liquid LF

- for mixing shoulder materials
- increases the stability of shape and edges

Modelling liquid LV Standard Universal

- standard liquid for mixing of materials

Universal paste liquid:

- to maintain the viscosity of the paste bonder

Note:

Universal liquids can also be used with the Triceram®, CCS, CARMEN® and dentCeram LF System.

Stains Universal	299-110-40	20 ml
Shoulder LF	299-125-40	20 ml
Modelling liquid LV Standard Univ.	299-160-41	20 ml
Modelling liquid LV Standard Univ.	299-160-81	100 ml
Modelling liquid LV Standard Univ.	299-160-91	500 ml
Universal paste liquid	299-170-40	20 ml
Universal paste liquid	299-170-80	100 ml
SM-Isofit	260-324-01	20 ml



CCS Product components and assortments

Products	Components
Universal paste opaque	A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, gingival
D Dentin	A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4
IFD Intensive Fluo Dentin	creme, yellow, orange
I Incisal	1, 2, 3
ITO Incisal transpa-opalescent	1, 2, 3
NT Neutral transparent	NT
Liquids	Universal paste liquids, modelling liquid LV+, stains universal liquid

The CCS product components are fully compatible with the CARMEN® ceramic system. All CCS product components are emphasized in „**Bold Type**“.



270-300-00	1 piece
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CCS shade guide



270-113-00	1 piece
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CCS STARTER set

bestehend aus:

- 1 Universal paste opaque A3 3 g
- 1 Dentin A3 20 g
- 1 Incisal 2 20 g
- 1 Neutral transparent 20 g
- 1 Modelling liquid LV+ universal 20 ml
- 1 Modelling liquid LV standard 20 ml
- 1 Opaque brush No. 6



270-112-00	1 piece
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CCS COMPACT set

bestehend aus:

- 16 Universal paste opaque A1-D4 3 g each
- 16 Dentin A1-D4 20 g each
- 3 Intensive Fluo Dentin 20 g each
- 3 Incisal I 20 g each
- 3 Incisal transpa-opalescent ITO 20 g each
- 1 Neutral transparent NT 20 g
- 1 Universal paste liquid 20 ml
- 1 Modelling liquid LV+ univ. 100 ml
- 1 Modelling liquid LV standard 20 ml
- 1 CCS shade guide
- 1 Opaque brush No. 6

Universal paste opaque

see page 29



D Dentin

- 16 dentin colors
- simple build-up technique O-D-IT due to re-evaluation of color components
- shorter firing times
- stability of shape and edges
- bake stability
- low shrinkage
- stability of color
- prismatic effect
- fully compatible with the CARMEN® ceramic system

Dentin A1	274-211-40	20 g
Dentin A1	274-211-60	40 g
Dentin A2	274-212-40	20 g
Dentin A2	274-212-60	40 g
Dentin A3	274-213-40	20 g
Dentin A3	274-213-60	40 g
Dentin A3.5	274-214-40	20 g
Dentin A3.5	274-214-60	40 g
Dentin A4	274-215-40	20 g
Dentin A4	274-215-60	40 g
Dentin B1	274-221-40	20 g
Dentin B1	274-221-60	40 g
Dentin B2	274-222-40	20 g
Dentin B2	274-222-60	40 g
Dentin B3	274-223-40	20 g
Dentin B3	274-223-60	40 g
Dentin B4	274-224-40	20 g
Dentin B4	274-224-60	40 g
Dentin C1	274-231-40	20 g
Dentin C1	274-231-60	40 g
Dentin C2	274-232-40	20 g
Dentin C2	274-232-60	40 g
Dentin C3	274-233-40	20 g
Dentin C3	274-233-60	40 g
Dentin C4	274-234-40	20 g
Dentin C4	274-234-60	40 g
Dentin D2	274-242-40	20 g
Dentin D2	274-242-60	40 g
Dentin D3	274-243-40	20 g
Dentin D3	274-243-60	40 g
Dentin D4	274-244-40	20 g
Dentin D4	274-244-60	40 g



Standard incisal materials:

Tooth shade	Incisal material	Tooth shade	Incisal material
A1	I1	B4	I3
A2	I1	C1	I3
A3	I2	C2	I2
A3.5	I2	C3	I2
A4	I3	C4	I3
B1	I1	D2	I3
B2	I2	D3	I2
B3	I2	D4	I2

IFD Intensiv Fluo Dentin

- fluorescent bold dentin material
- controls the brightness within the build-up
- fully compatible with the CARMEN® ceramic system

Intensiv Fluo Dentin creme	274-751-40	20 g
Intensiv Fluo Dentin yellow	274-760-40	20 g
Intensiv Fluo Dentin orange	274-770-40	20 g



CCS Individual products



Incisal 1	275-750-40	20 g
Incisal 1	275-750-60	40 g
Incisal 2	275-760-40	20 g
Incisal 2	275-760-60	40 g
Incisal 3	275-770-40	20 g
Incisal 3	275-770-60	40 g

I Incisal

- standard incisal materials
- for reproducing natural enamel application in incisal area
- fully compatible with the CARMEN® ceramic system



Incisal transpa-opalescent 1	275-650-40	20 g
Incisal transpa-opalescent 1	275-650-60	40 g
Incisal transpa-opalescent 2	275-660-40	20 g
Incisal transpa-opalescent 2	275-660-60	40 g
Incisal transpa-opalescent 3	275-670-40	20 g
Incisal transpa-opalescent 3	275-670-60	40 g

ITO Incisal transpa-opalescent

- for incisal alternative layer
- opalescent bluish effect in reflected light, slightly orange effect in permeated light
- intensifies natural refraction of light



Neutral transparent	275-299-40	20 g
Neutral transparent	275-299-60	40 g

NT Neutral transparent

- for use as required according to each patient case
- fully compatible with the CARMEN® ceramic system



Universal paste liquid	299-170-40	20 ml
Universal paste liquid	299-170-80	100 ml
Modelling liquid LV Standard Univ.	299-160-41	20 ml
Modelling liquid LV Standard Univ.	299-160-81	100 ml
Modelling liquid LV Standard Univ.	299-160-91	500 ml
Modelling liquid LV+ Univ.	299-160-40	20 ml
Modelling liquid LV+ Univ.	299-160-80	100 ml
Modelling liquid LV+ Univ.	299-160-99	500 ml

Liquids

Universal paste liquid

- to maintain the viscosity of the paste opaque

Modelling liquid LV Standard Universal

- standard liquid for mixing of materials

Modelling liquid LV+ Universal

- The material shrinkage has been reduced to a minimum
- New additives keep the mixing liquid moist for longer. Ceramic remains moist and easy to use throughout the entire build-up.

Note:

Universal liquids can also be used with the Triceram®, CCS, CARMEN® and dentCeram LF System.

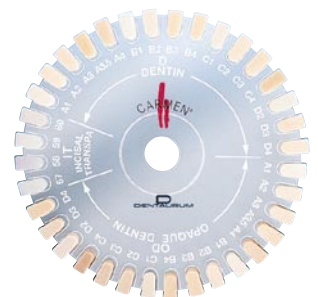
CARMEN® Product components and shade guides

Products	Components
Universal paste opaque	A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, gingival, Bleach CO 1
SM Shoulder	A, B, C, D, white, yellow, orange, transparent
C Cervical	A, B, C, D
OD Opaque dentin	A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4
D Dentin	A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4
Bleach	Bleach CO 1, Bleach CD 1, 2, Bleach CI 1
ODI Opaque dentin intensiv	yellow, ochre, salmen, caramel
DI Dentin intensive	orange
AL Arteline	ivory, yellow, golden yellow, honey yellow, lemon, olive
IT Incisal transparent	57, 58, 59, 60
IO Incisal opalescent	57, 58, 59, 60
NT Neutral transparent	NT
TO Transparent opalescent	64
NTO Neutral transparent opal.	65
II Incisal intensive	62, 63
CM Correction	CM
G, GD Gingival	light, dark
Stains Universal	A, B, C, 0, 1, 2, 3, 45, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
Liquids	Universal paste liquid, shoulder material liquid, stains universal liquid, modelling MV and modelling LV+

The CARMEN® product components are fully compatible with the CCS System.

I Basic materials CARMEN® shade guide

260-318-00	1 piece
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II Effect materials CARMEN® shade guide

260-319-00	1 piece
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CARMEN® Assortments



260-213-99

1 piece

CARMEN® Starter set

contains:

- 1 Universal paste opaque A3 3 g
- 1 Opaque dentin A3 15 g
- 1 Dentin A3 15 g
- 1 Incisal transparent 59 15 g
- 1 Neutral transparent 15 g
- 1 Universal paste liquid 20 ml
- 1 Modelling liquid LV+ universal 20 ml
- 1 Modelling liquid LV standard 20 ml
- 1 Opaque brush No. 6



260-116-00

1 piece

CARMEN® Combi set

contains:

- 2 Universal paste opaque A3+A3.5 3 g each
- 2 Opaque dentin A3 + A3.5 15 g each
- 2 Dentin A3 + A3.5 15 g each
- 1 Incisal transparent 59 15 g
- 1 Neutral transparent 15 g
- 1 Incisal opalescent 59 15 g
- 1 Stains universal liquid 20 ml
- 1 Universal paste liquid 20 ml
- 1 Modelling liquid LV+ universal 100 ml
- 1 Modelling liquid LV standard 20 ml
- 1 Opaque brush No. 6



260-112-00

1 piece

CARMEN® Master set

contains:

- 16 Universal paste opaque A1-D4 3 g each
- 16 Opaque dentin A1-D4 15 g each
- 16 Dentin A1-D4 15 g each
- 4 Incisal transparent 57-60 15 g each
- 1 Neutral transparent-Masse 15 g
- 1 Dentin intensive 15 g
- 1 Stains universal liquid 20 ml
- 1 Universal paste liquid 20 ml
- 1 Modelling liquid MV Universal 20 ml
- 1 Modelling liquid LV+ universal 100 ml
- 1 Modelling liquid LV standard 20 ml
- 1 Shade guide basic materials



296-000-01

1 piece

Stains universal set

contains:

- 15 Stains universal 0-15 3 g each
- 1 Stains universal liquid 20 ml
- 1 Shade guide for stains universal

AESTHETIC UNIVERSAL Bonder

- Stronger bond between the metal and ceramics
- Optimum reproduction of the shade, especially in the marginal area of the crowne

AESTHETIC UNIV. Bonder Set	292-200-15	4 g
AESTHETIC UNIV. Bonder	292-200-10	4 g



O Flash opaque

Flash opaque is used for non-precious metal alloys. The flash opaque consists of a base material and powders which yield the required shades (A1-D4). With only one bake, flash opaque possesses the following properties:

- reduced oxide formation
- no discoloring
- good covering properties
- recommended liquid: CARMEN® Flash opaque liquid

Flash opaque base material	262-100-10	4 g
Flash opaque A1	262-211-30	15 g
Flash opaque A2	262-212-30	15 g
Flash opaque A3	262-213-30	15 g
Flash opaque A3.5	262-214-30	15 g
Flash opaque A4	262-215-30	15 g
Flash opaque B1	262-221-30	15 g
Flash opaque B2	262-222-30	15 g
Flash opaque B3	262-223-30	15 g
Flash opaque B4	262-224-30	15 g
Flash opaque C1	262-231-30	15 g
Flash opaque C2-3	262-239-30	15 g
Flash opaque C4	262-234-30	15 g
Flash opaque D2	262-242-30	15 g
Flash opaque D3	262-243-30	15 g
Flash opaque D4	262-244-30	15 g



Universal paste opaque

The universal paste opaque for CARMEN® can be used with all precious and non-precious dental alloys and galvano.

It has the following advantages:

- is ready to be used (without mixing)
- usually one bake is sufficient
- low bake temperature
- no slow cooling necessary (for all bakes)
- low layer thickness
- good dense coverage of the metal frame
- easy and uncomplicated layering
- silky gloss
- recommended liquid: Universal paste liquid

Paste opaque A1	262-311-10	3 g
Paste opaque A2	262-312-10	3 g
Paste opaque A3	262-313-10	3 g
Paste opaque A3.5	262-314-10	3 g
Paste opaque A4	262-315-10	3 g
Paste opaque B1	262-321-10	3 g
Paste opaque B2	262-322-10	3 g
Paste opaque B3	262-323-10	3 g
Paste opaque B4	262-324-10	3 g
Paste opaque C1	262-331-10	3 g
Paste opaque C2	262-332-10	3 g
Paste opaque C3	262-333-10	3 g
Paste opaque C4	262-334-10	3 g
Paste opaque D2	262-342-10	3 g
Paste opaque D3	262-343-10	3 g
Paste opaque D4	262-344-10	3 g
Paste opaque gingival	262-250-10	3 g
Chroma opaque CO 1 Bleach	262-301-10	3 g



CARMEN® Individual products



Shoulder material A	263-110-30	15 g
Shoulder material B	263-120-30	15 g
Shoulder material C	263-130-30	15 g
Shoulder material D	263-140-30	15 g
Shoulder material white	263-150-30	15 g
Shoulder material yellow	263-160-30	15 g
Shoulder material orange	263-170-30	15 g
Shoulder material transpa.	263-199-30	15 g

SM Shoulder material

The CARMEN® system offers four different shoulder materials which are divided into the shades A, B, C and D. All color variations from A1 to D4 can be achieved by mixing the shoulder material "white" accordingly. For more transparency of the shoulder the shoulder material "transparent" should be added. Further individual modifications can be achieved with the shoulder materials "yellow" and "orange". For mixing, use the shoulder material liquid universal only.



Cervical material A	264-610-30	15 g
Cervical material B	264-620-30	15 g
Cervical material C	264-630-30	15 g
Cervical material D	264-640-30	15 g

C Cervical material

- creates more intensive color in the cervical area
- can be tinted as required with dentin color



Opaque dentin A1	264-111-30	15 g
Opaque dentin A1	264-111-60	40 g
Opaque dentin A2	264-112-30	15 g
Opaque dentin A2	264-112-60	40 g
Opaque dentin A3	264-113-30	15 g
Opaque dentin A3	264-113-60	40 g
Opaque dentin A3.5	264-114-30	15 g
Opaque dentin A3.5	264-114-60	40 g
Opaque dentin A4	264-115-30	15 g
Opaque dentin A4	264-115-60	40 g
Opaque dentin B1	264-121-30	15 g
Opaque dentin B1	264-121-60	40 g
Opaque dentin B2	264-122-30	15 g
Opaque dentin B2	264-122-60	40 g
Opaque dentin B3	264-123-30	15 g
Opaque dentin B3	264-123-60	40 g
Opaque dentin B4	264-124-30	15 g
Opaque dentin B4	264-124-60	40 g
Opaque dentin C1	264-131-30	15 g
Opaque dentin C1	264-131-60	40 g
Opaque dentin C2	264-132-30	15 g
Opaque dentin C2	264-132-60	40 g
Opaque dentin C3	264-133-30	15 g
Opaque dentin C3	264-133-60	40 g
Opaque dentin C4	264-134-30	15 g
Opaque dentin C4	264-134-60	40 g
Opaque dentin D2	264-142-30	15 g
Opaque dentin D2	264-142-60	40 g

OD Opaque dentin

- diffusing effect
- three-dimensional effect of depth when completed
- complementing the actual tooth shade even in an unfavourable space situation
- intensifies depth reflection

CARMEN® Individual products

OD Opaque dentin

- diffusing effect
- three-dimensional effect of depth when completed
- complementing the actual tooth shade even in an unfavourable space situation
- intensifies depth reflection

Opaque dentin D3	264-143-30	15 g
Opaque dentin D3	264-143-60	40 g
Opaque dentin D4	264-144-30	15 g
Opaque dentin D4	264-144-60	40 g



D Dentin

- 16 dentin colors
- easy handling
- stability of shape and edges
- bake stability
- low shrinkage
- stability of color
- prismatic effect

Dentin A1	264-211-30	15 g
Dentin A1	264-211-60	40 g
Dentin A1	264-211-90	240 g
Dentin A2	264-212-30	15 g
Dentin A2	264-212-60	40 g
Dentin A2	264-212-90	240 g
Dentin A3	264-213-30	15 g
Dentin A3	264-213-60	40 g
Dentin A3	264-213-90	240 g
Dentin A3.5	264-214-30	15 g
Dentin A3.5	264-214-60	40 g
Dentin A3.5	264-214-90	240 g
Dentin A4	264-215-30	15 g
Dentin A4	264-215-60	40 g
Dentin A4	264-215-90	240 g
Dentin B1	264-221-30	15 g
Dentin B1	264-221-60	40 g
Dentin B1	264-221-90	240 g
Dentin B2	264-222-30	15 g
Dentin B2	264-222-60	40 g
Dentin B2	264-222-90	240 g
Dentin B3	264-223-30	15 g
Dentin B3	264-223-60	40 g
Dentin B3	264-223-90	240 g
Dentin B4	264-224-30	15 g
Dentin B4	264-224-60	40 g
Dentin B4	264-224-90	240 g
Dentin C1	264-231-30	15 g
Dentin C1	264-231-60	40 g
Dentin C1	264-231-90	240 g
Dentin C2	264-232-30	15 g
Dentin C2	264-232-60	40 g
Dentin C2	264-232-90	240 g
Dentin C3	264-233-30	15 g
Dentin C3	264-233-60	40 g
Dentin C3	264-233-90	240 g
Dentin C4	264-234-30	15 g
Dentin C4	264-234-60	40 g
Dentin C4	264-234-90	240 g



Standard incisal material:

Tooth shade	Incisal material	Tooth shade	Incisal material
A1	IT 57	B4	IT 59
A2	IT 57	C1	IT 59
A3	IT 59	C2	IT 59
A3.5	IT 59	C3	IT 59
A4	IT 60	C4	IT 60
B1	IT 57	D2	IT 59
B2	IT 59	D3	IT 59
B3	IT 59	D4	IT 59

With IT 58, it is possible to achieve additional grey effects in the area of the posteriors.

CARMEN® Individual products



Dentin D2	264-242-30	15 g
Dentin D2	264-242-60	40 g
Dentin D2	264-242-90	240 g
Dentin D3	264-243-30	15 g
Dentin D3	264-243-60	40 g
Dentin D3	264-243-90	240 g
Dentin D4	264-244-30	15 g
Dentin D4	264-244-60	40 g
Dentin D4	264-244-90	240 g

D Dentin

- 16 dentin colors
- easy handling
- stability of shape and edges
- bake stability
- low shrinkage
- stability of color
- prismatic effect



Chroma Opaque CO 1 Bleach	262-301-10	3 g
Chroma Dentin CD 1 Bleach	274-251-40	20 g
Chroma Dentin CD 2 Bleach	274-252-40	20 g
Chroma Incisal CI 1 Bleach	274-701-40	20 g

Bleach

- White and light bleaching materials
- for patients with lighter and previously bleached tooth shades
- Completely compatible with the CARMEN® System



Opaque dentin int. yellow	264-360-30	15 g
Opaque dentin int. ochre	264-365-30	15 g
Opaque dentin int. salmon	264-371-30	15 g
Opaque dentin int. caramel	264-374-30	15 g

ODI Opaque dentin intensive

- for controlling brightness
- application in dentin and approximal areas



Dentin intensive orange	264-470-30	15 g
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DI Dentin intensive

- intensive orange-colored material
- for mamelon tips
- for dentin characterization
- for insertion in central fissure area



Arteline ivory	266-451-30	15 g
Arteline yellow	266-460-30	15 g
Arteline golden yellow	266-461-30	15 g
Arteline honey yellow	266-463-30	15 g
Arteline lemon	266-491-30	15 g
Arteline olive	266-494-30	15 g

AL Arteline

- for creating depth of color
- for imitating natural effects in dentin body and mamelon areas



Incisal transparent 57	265-150-30	15 g
Incisal transparent 57	265-150-60	40 g
Incisal transparent 57	265-150-90	240 g
Incisal transparent 58	265-154-30	15 g
Incisal transparent 58	265-154-60	40 g
Incisal transparent 58	265-154-90	240 g

IT Incisal transparent

- standard incisal material
- application in incisal area

CARMEN® Individual products

IT Incisal transparent

- standard incisal material
- application in incisal area

Incisal transparent 59	265-160-30	15 g
Incisal transparent 59	265-160-60	40 g
Incisal transparent 59	265-160-90	240 g
Incisal transparent 60	265-170-30	15 g
Incisal transparent 60	265-170-60	40 g
Incisal transparent 60	265-170-90	240 g



IO Incisal opalescent IO

- for incisal alternative layer
- opalescent bluish effect in reflected light, slightly orange effect in permeated light
- intensifies natural refraction of light
- application in incisal area

Incisal opalescent 57	265-350-30	15 g
Incisal opalescent 58	265-354-30	15 g
Incisal opalescent 59	265-360-30	15 g
Incisal opalescent 60	265-370-30	15 g



NT, TO, NTO, II Incisal material

Transparent opalescent 64 (TO):

- blue-opalescent material
- application in incisal area

Neutral transparent opalescent 65 (NTO):

- white-opalescent material
- for reinforcing the natural opalescence and transparency
- application in incisal area

Incisal intensive 62 (II):

- very opaque white material
- for imitation of demineralized zones
- suitable for edge strips in the molar area

Incisal intensive 63 (II):

- honey-colored material
- for imitation of age characteristics
- application in incisal area

Neutral transparent	265-299-30	15 g
Neutral transparent	265-299-60	40 g
Neutral transparent	265-299-90	240 g
Transparent opalescent 64	265-480-30	15 g
NT opalescent 65	265-499-30	15 g
Incisal intensive 62	265-550-30	15 g
Incisal intensive 63	265-570-30	15 g



ST Stains Universal

To obtain modifications in shade. They can be laid in and mixed with the materials. Stains can be mixed up to 10 mass% with the ceramic materials (SM, OD, D, IT, IO, NT + G). If they are mixed with stains universal liquid, these materials are also suitable for painting the surface of the ceramic material. This material has highly individual characteristics and special depth of color.

Note:

Stains universal can also be used in combination with the Triceram® system (for mixing and painting).

●	Body Stains A	296-110-10	3 g
●	Body Stains B	296-120-10	3 g
●	Body Stains C	296-130-10	3 g
●	Stains 0 neutral	296-199-10	3 g
○	Stains 1 white	296-150-10	3 g
●	Stains 2 vanilla	296-162-10	3 g
●	Stains 3 yellow	296-160-10	3 g
●	Stains 45 orange plus	296-171-10	3 g
●	Stains 6 pink	296-185-10	3 g
●	Stains 7 dark pink	296-187-10	3 g
●	Stains 8 purple	296-189-10	3 g
●	Stains 9 blue	296-180-10	3 g
●	Stains 10 grey	296-155-10	3 g
●	Stains 11 olive-green	296-193-10	3 g



CARMEN® Individual products



●	Stains 12 olive-yellow	296-192-10	3 g
●	Stains 13 medium brown	296-167-10	3 g
●	Stains 14 red brown	296-168-10	3 g
●	Stains 15 black	296-198-10	3 g

ST Stains Universal



	Correction material	267-199-10	3 g
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CM Correction material

LFC-material. Use for minor corrections only.
 ■ Baking temperature 730°C / 1346°F.



	Gingival material light	268-110-30	15 g
	Gingival material dark	268-120-30	15 g

G Gingival material

- For the build-up and reconstruction of gingiva and papilla situation
- Compensates for gingiva defects



	Stains Universal	299-110-40	20 ml
	Shoulder material univ.	299-120-40	20 ml
	CARMEN® Flash opaque	269-130-40	20 ml
	Universal paste liquid	299-170-40	20 ml
	Universal paste liquid	299-170-80	100 ml
	Modelling liquid MV Univ.	299-150-40	20 ml
	Modelling liquid MV Univ.	299-150-80	100 ml
	Modelling liquid LV Standard Univ.	299-160-41	20 ml
	Modelling liquid LV Standard Univ.	299-160-81	100 ml
	Modelling liquid LV Standard Univ.	299-160-91	500 ml
	Modelling liquid LV+ Univ.	299-160-40	20 ml
	Modelling liquid LV+ Univ.	299-160-80	100 ml
	Modelling liquid LV+ Univ.	299-160-99	500 ml
	SM-Isofit	260-324-01	20 ml
	AESTHETIC Bonder Liquid	299-200-10	5 ml

Liquids

Stains universal liquid

- for mixing stains universal
- for the glaze bake

Shoulder material liquid universal

- for mixing shoulder materials
- increases the stability of shape and edges
- The shoulder material liquid cannot be used together with dentCeram LF

CARMEN® Flash opaque liquid

- for diluting flash opaque base material

Universal paste liquid

- to maintain the viscosity of the paste opaque

Modelling liquid MV universal

- to increase plasticity
- especially in dry warm climates
- for prolonging plasticity

Modelling liquid LV Standard Universal

- standard liquid for mixing of materials

Modelling liquid LV+ Universal

- The material shrinkage has been reduced to a minimum
- New additives keep the mixing liquid moist for longer. Ceramic remains moist and easy to use throughout the entire build-up

AESTHETIC Bonder Liquid:

- to maintain the viscosity of the AESTHETIC UNIVERSAL Bonder

Note:

Universal liquids can also be used with the Triceram®, CCS, CARMEN® and dentCeram LF System.

CARMEN® Individual products

Contrast marker

- for tinting mixed materials
- for better contrast in layering
- burns without residue
- viscosity similar to that of modelling liquid LV+ universal

Contrast marker vanilla	269-162-20	10 ml
Contrast marker orange	269-170-20	10 ml
Contrast marker red	269-179-20	10 ml
Contrast marker blue	269-180-20	10 ml
Contrast marker green	269-190-20	10 ml



Contrast marker set

contains:

- 1 Contrast marker vanilla REF 269-162-20
- 1 Contrast marker orange REF 269-170-20
- 1 Contrast marker red REF 269-179-20
- 1 Contrast marker blue REF 269-180-20
- 1 Contrast marker green REF 269-190-20

269-000-00	1 piece
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EspriVest Ultra

for Inlays / Onlays / Veneers / Metal-free Ceramic Crowns

Advantages

- The improved flow of the investment material means even the finest details are reproduced.
- The longer working time of 9 min (EspriVest 3.5 min) allows you to work more detailed and without stress.
- The investment material's higher strength guarantees strong edges and exact repositioning in any model system.
- The homogenous and dense surface guarantees detailed reproduction in the ceramic.
- EspriVest Ultra is perfectly compatible with the ceramic system CARMEN® and CCS by Dentaurnum

Investment material	260-336-00	250 g
Mixing liquid	260-337-00	100 ml



Duplicating flask

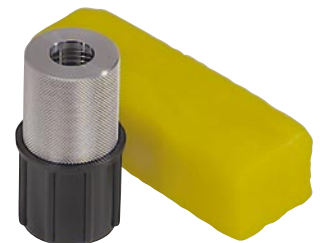
For ceramists

The Dentaurnum duplicating flask is used for duplicating when fabricating inlays, onlays, laminate veneers and jacket crowns. It ensures cost-effective use of both duplicating silicone and refractory die material. The duplicating flask also saves material when reproducing single dies.

Two dies can be duplicated simultaneously in one flask, depending on the size of the dies.

The following items can be ordered separately:

Duplicating flask with putty	260-331-00	1 piece
Duplicating flask without putty	260-332-00	1 piece



Aluminium top section	260-333-00	1 piece
Plastic lower section	260-334-00	1 piece
Putty	260-335-00	1 piece

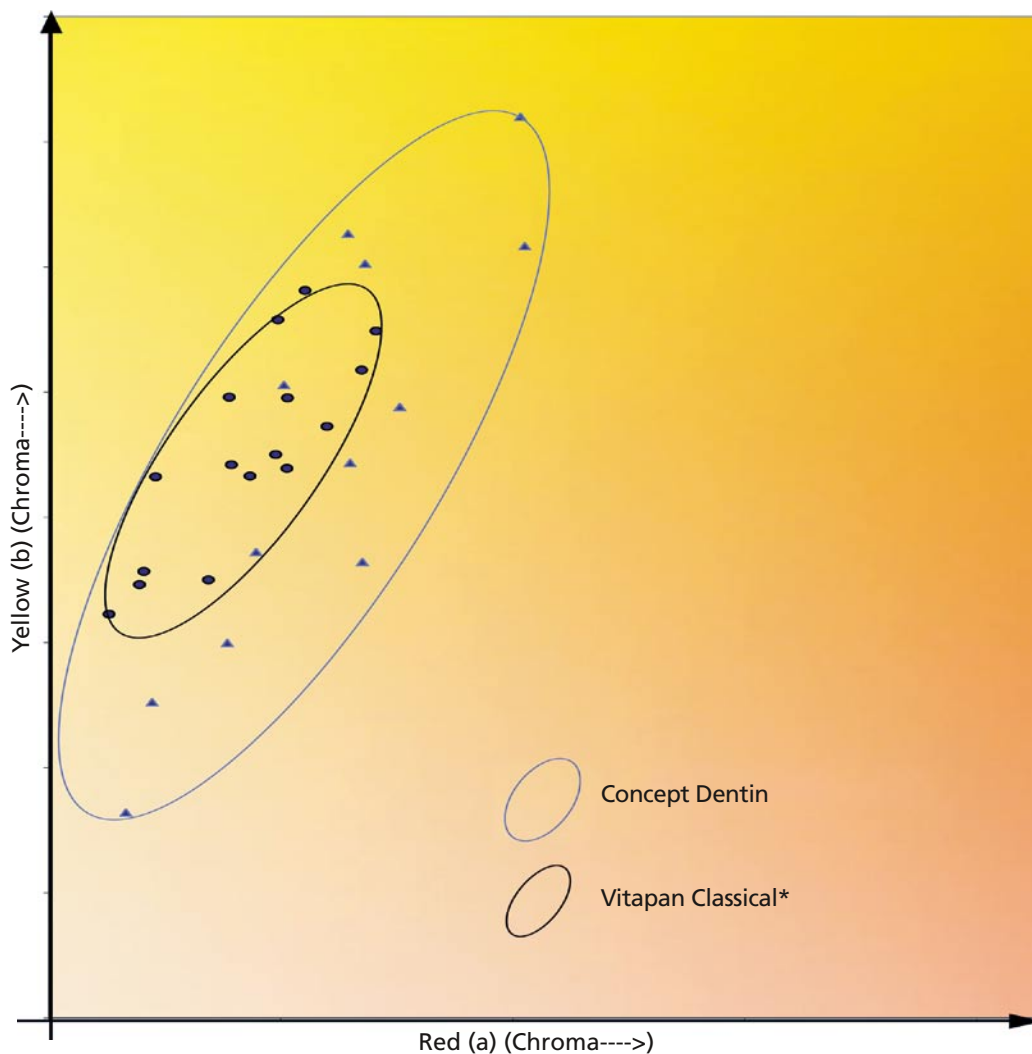
Chroma Concept Product components and shade guide

Products	Components
Chroma Opaque	CO 1 Bleach, CO 2, CO 3, CO 4
Chroma Dentin	CD 1 Bleach, CD 2 Bleach, CD 3, CD 4, CD 5, CD 6, CD 7, CD 8, CD 9, CD 10, CD 11, CD 12
Chroma Incisal	CI 1 Bleach
Universal liquids	Modelling MV, Modelling LV standard univ., Modelling LV+ univ., SM-Isofit

Broaden your Possibilities

Materials for CCS and CARMEN® Ceramic

The Chroma Concept materials enable you to enhance and complement the Vitapan Classical* shade range toward more reddish, yellowish or whitish shades. The Chroma Concept dentine materials have the same opacity as the CCS dentine materials. Whether mixed or pure, the Chroma Concept materials are fully compatible with CARMEN® and the CCS Ceramic System.



*VITA is a trademark of the company VITA Zahnfabrik, Bad Säckingen

Chroma Concept Assortment and individual products

Chroma Concept set

contains:

- 4 Chroma Opaque CO 1-CO 4 3 g each
- 12 Chroma Dentin CD 1-CD 12 20 g each
- 1 Chroma Incisal CI 1 20 g each
- 1 Chroma Concept shade guide

270-150-00	1 piece
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Chroma Concept shade guide

270-320-00	1 piece
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Chroma Opaque

- Chroma Opaque in a paste form
- Enhances reflection from within the depths
- Whiter and lighter opaque for bleaching materials for patients with whiter tooth shades
- Fully compatible with CARMEN® and the CCS System

Chroma Opaque Bleach CO 1	262-301-10	3 g
Chroma Opaque CO 2	262-302-10	3 g
Chroma Opaque CO 3	262-303-10	3 g
Chroma Opaque CO 4	262-304-10	3 g



Chroma Dentin

- Used pure or mixed, complements the shade range
- Excellent colour stability
- Identical opacity as CCS Dentine materials
- Whiter and lighter dentine bleaching materials for patients with whiter tooth shades
- Fully compatible with CARMEN® and the CCS System

Chroma Dentin Bleach CD 1	274-251-40	20 g
Chroma Dentin Bleach CD 2	274-252-40	20 g
Chroma Dentin CD 3	274-253-40	20 g
Chroma Dentin CD 4	274-254-40	20 g
Chroma Dentin CD 5	274-255-40	20 g
Chroma Dentin CD 6	274-256-40	20 g
Chroma Dentin CD 7	274-257-40	20 g
Chroma Dentin CD 8	274-258-40	20 g
Chroma Dentin CD 9	274-259-40	20 g
Chroma Dentin CD 10	274-260-40	20 g
Chroma Dentin CD 11	274-261-40	20 g
Chroma Dentin CD 12	274-262-40	20 g



Chroma Incisal

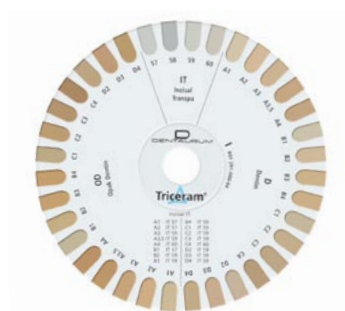
- Lighter incisal Bleaching material for patients with lighter and previously bleached tooth shades
- Fully compatible with CARMEN® and the CCS System

Chroma Incisal Bleach CI 1	275-701-40	20 g
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Triceram® Product components and shade guides

Products	Components
Bonder	Powder bonder, paste bonder
FL Fluo Liner	1, 2, 3, 4, 5, 6
SM Shoulder	A, B, C, D
SM modifiers	white, transparent
O Opaque	A1,A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, G, Bleach CO 1
OD Opaque dentin	A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4
D Dentin	A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4
Bleach	Bleach CO 1, Bleach CD 1, 2, Bleach CI 1
CD Chroma Dentin	A, B, C
IFD Intensive Fluo Dentin	creme, yellow, orange, orange plus
IT Incisal transparent	57, 58, 59, 60
IO Incisal opalescent	ice white, polar white, snow white, sky blue, amber
NT Neutral transparent	NT
CM Correction	CM
TE Transpa-effect	white, yellow, pink, honey, blue, brown
G, GD Gingival	light, dark
Stains universal	A, B, C, 0, 1, 2, 3, 45, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
Liquids	Universal paste liquid, Shoulder material liquid, stains universal liquid, modelling MV univ., modelling LV standard univ., modelling LV+ univ., B.O.L., SM-Isokit



291-000-04

1 piece

I Basic materials Triceram® Shade guide



291-000-05

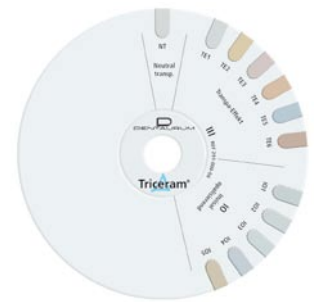
1 piece

II Effect materials Triceram® Shade guide

Triceram® shade guides and assortments

III Effect materials Triceram® Shade guide

291-000-06	1 piece
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Triceram® Starter set

contains:

- 1 Powder bonder 3 g
- 1 Paste bonder 3 g
- 1 Fluo Liner 1 20 g
- 1 Opaque O A3 15 g
- 1 Opaque dentin OD A3 15 g
- 1 Dentin D A3 15 g
- 1 Incisal transparent IT 59 15 g
- 1 Neutral transparent NT 15 g
- 1 Universal B.O.L. liquid 20 ml
- 1 Modelling liquid LV+ universal 20 ml
- 1 Modelling liquid LV standard univ. 20 ml
- 1 Glass spatula for applying bonder and opaque
- 1 Opaque brush No. 6

290-113-01	1 piece
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Triceram® Master set Ti (1)

contains:

- 1 Powder bonder 15 g
- 17 Opaque O A1-D4 + G 15 g each
- 16 Opaque dentin OD A1-D4 15 g each
- 16 Dentine D A1-D4 15 g each
- 4 Incisal transparent IT 57-60 15 g each
- 5 Incisal opalescent IO 1-5 15 g each
- 1 Neutral transparent NT 15 g
- 1 Correction CM 3 g
- 6 Transpa-effect TE 1-6 15 g each
- 4 Shoulder SM A-D 15 g each
- 2 Shoulder-modifiers SM W, SM T 15 g
- 2 Gingival G, GD 15 g
- 15 Stains universal ST 0-15 3 g each
- 1 Stains universal liquid 20 ml
- 1 Shoulder material liquid univ. 20 ml
- 1 Universal B.O.L. liquid 100 ml
- 1 Modelling liquid MV univ. 20 ml
- 1 Modelling liquid LV+ univ. 100 ml
- 1 Modelling liquid LV std. univ. 20 ml
- 1 SM-Isofit 20 ml
- 1 Glass spatula for applying bonder and opaque
- 1 Opaque brush No. 6
- 1 Shade guide I Basic materials
- 1 Shade guide II effect materials
- 1 Shade guide III effect materials
- 1 Shade guide for Stains Universal

290-112-01	1 piece
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Triceram® assortments and Individual products



290-112-11	1 piece
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Triceram® Master set Ti (2)

Contents identical to REF 290-112-01, with paste bonder instead of powder bonder



290-112-03	1 piece
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Triceram® Master set Zr (3)

Contents identical to REF 290-112-01, with

6 Fluo Liner FL 1-FL 6	20 g each
4 Intensive Fluo Dentin	15 g each
3 Chroma Dentin	15 g each

Without powder bonder, paste bonder and opaque A1-D4



296-000-01	1 piece
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Stains Universal-Set

contains:

15 Stains Universal 0-15	3 g each
1 Stains Universal liquid	20 ml
1 Shade guide for Stains Universal	



AESTHETIC UNIV. Bonder Set	292-200-15	4 g
AESTHETIC UNIV. Bonder	292-200-10	4 g

AESTHETIC UNIVERSAL Bonder

- Stronger bond between the metal and ceramics
- Optimum reproduction of the shade, especially in the marginal area of the crown



Powder bonder	292-100-10	3 g
Powder bonder	292-100-30	15 g
Powder bonder	292-100-60	40 g
Paste bonder	292-110-05	3 g
Paste bonder	292-110-10	8 g

Bonder

- Creates a connection between the titanium and the ceramic (bond)
- recommended liquid: Universal paste liquid

Triceram® Individual products

FL Fluo Liner

- Exclusively for ZrO₂ framework
- Increases the natural color intensity
- Optimal bond between framework and ceramic
- recommended liquid: Universal B.O.L. liquid

Mixing recommendation

Tooth shade	L1	L2	L3	L4	L5	L6
A1	1/3				2/3	
A2	2/3				1/3	
A3	1					
A3.5	3/4					1/4
A4	1/2					1/2
B1		1/3			2/3	
B2		2/3			1/3	
B3		3/4			1/4	
B4		1				
C1			1/3		2/3	
C2			2/3		1/3	
C3			3/4		1/4	
C4			1			
D2				2/3	1/3	
D3				3/4	1/4	
D4		1/3		2/3		

Fluo Liner 1	292-514-40	20 g
Fluo Liner 2	292-524-40	20 g
Fluo Liner 3	292-534-40	20 g
Fluo Liner 4	292-544-40	20 g
Fluo Liner 5	292-554-40	20 g
Fluo Liner 6	292-564-40	20 g



O Opaque

- good and dense coverage of the titanium frame
- easy handling
- recommended liquid: Universal B.O.L. liquid

Opaque A1	292-211-30	15 g
Opaque A1	292-211-60	40 g
Opaque A2	292-212-30	15 g
Opaque A2	292-212-60	40 g
Opaque A3	292-213-30	15 g
Opaque A3	292-213-60	40 g
Opaque A3.5	292-214-30	15 g
Opaque A3.5	292-214-60	40 g
Opaque A4	292-215-30	15 g
Opaque A4	292-215-60	40 g
Opaque B1	292-221-30	15 g
Opaque B1	292-221-60	40 g
Opaque B2	292-222-30	15 g
Opaque B2	292-222-60	40 g
Opaque B3	292-223-30	15 g
Opaque B3	292-223-60	40 g
Opaque B4	292-224-30	15 g
Opaque B4	292-224-60	40 g
Opaque C1	292-231-30	15 g
Opaque C1	292-231-60	40 g
Opaque C2	292-232-30	15 g
Opaque C2	292-232-60	40 g
Opaque C3	292-233-30	15 g
Opaque C3	292-233-60	40 g
Opaque C4	292-234-30	15 g
Opaque C4	292-234-60	40 g
Opaque D2	292-242-30	15 g
Opaque D2	292-242-60	40 g



Triceram® Individual products



Opaque D3	292-243-30	15 g
Opaque D3	292-243-60	40 g
Opaque D4	292-244-30	15 g
Opaque D4	292-244-60	40 g
Opaque Gingival	292-250-30	15 g
Chroma Opaque CO 1 Bleach	292-301-30	15 g

Opaque Gingival

- The Triceram® gingival opaque allows you to cover the titanium framework in gingival colors if necessary.
- Especially useful with implant restorations where the supra construction can be masked in pink - gingival shades at the opaque stage.
- The Opaque Gingival color harmonises optimally with the Triceram® gingival materials G and GD meeting high quality aesthetic demands.
- recommended liquid: Universal B.O.L. liquid



Shoulder material A	293-110-30	15 g
Shoulder material B	293-120-30	15 g
Shoulder material C	293-130-30	15 g
Shoulder material D	293-140-30	15 g

SM Shoulder material

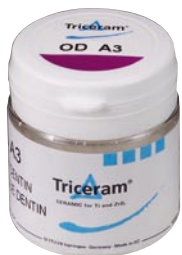
The Triceram® system comprises of four different shoulder materials which are divided into groups A, B, C and D. All color variations from A1 to D4 can be achieved by mixing the shoulder material "white" accordingly.



SM modifier white	293-150-30	15 g
SM modifier transparent	293-199-30	15 g

SM modifier

For more transparency of the shoulder and a better effect of depth the shoulder material "transparent" should be added. For mixing, use the shoulder material liquid universal only.



Opaque dentin A1	294-111-30	15 g
Opaque dentin A1	294-111-60	40 g
Opaque dentin A2	294-112-30	15 g
Opaque dentin A2	294-112-60	40 g
Opaque dentin A3	294-113-30	15 g
Opaque dentin A3	294-113-60	40 g
Opaque dentin A3.5	294-114-30	15 g
Opaque dentin A3.5	294-114-60	40 g
Opaque dentin A4	294-115-30	15 g
Opaque dentin A4	294-115-60	40 g
Opaque dentin B1	294-121-30	15 g
Opaque dentin B1	294-121-60	40 g
Opaque dentin B2	294-122-30	15 g
Opaque dentin B2	294-122-60	40 g
Opaque dentin B3	294-123-30	15 g
Opaque dentin B3	294-123-60	40 g
Opaque dentin B4	294-124-30	15 g
Opaque dentin B4	294-124-60	40 g
Opaque dentin C1	294-131-30	15 g
Opaque dentin C1	294-131-60	40 g

OD Opaque dentin

- 16 opaque dentin colors
- diffusing effect
- three-dimensional effect of depth (when completed)
- complementing the actual tooth shade (even in an unfavourable space situation)
- intensifies depth reflections

Triceram® Individual products

OD Opaque dentin

- 16 opaque dentin colors
- diffusing effect
- three-dimensional effect of depth (when completed)
- complementing the actual tooth shade (even in an unfavourable space situation)
- intensifies depth reflections

Opaque dentin C2	294-132-30	15 g
Opaque dentin C2	294-132-60	40 g
Opaque dentin C3	294-133-30	15 g
Opaque dentin C3	294-133-60	40 g
Opaque dentin C4	294-134-30	15 g
Opaque dentin C4	294-134-60	40 g
Opaque dentin D2	294-142-30	15 g
Opaque dentin D2	294-142-60	40 g
Opaque dentin D3	294-143-30	15 g
Opaque dentin D3	294-143-60	40 g
Opaque dentin D4	294-144-30	15 g
Opaque dentin D4	294-144-60	40 g



D Dentin

- 16 dentin colors
- easy handling
- stability of shape and edges
- bake stability
- low shrinkage
- stability of color
- prismatic effect
- natural fluorescence

Dentin A1	294-211-30	15 g
Dentin A1	294-211-60	40 g
Dentin A2	294-212-30	15 g
Dentin A2	294-212-60	40 g
Dentin A3	294-213-30	15 g
Dentin A3	294-213-60	40 g
Dentin A3.5	294-214-30	15 g
Dentin A3.5	294-214-60	40 g
Dentin A4	294-215-30	15 g
Dentin A4	294-215-60	40 g
Dentin B1	294-221-30	15 g
Dentin B1	294-221-60	40 g
Dentin B2	294-222-30	15 g
Dentin B2	294-222-60	40 g
Dentin B3	294-223-30	15 g
Dentin B3	294-223-60	40 g
Dentin B4	294-224-30	15 g
Dentin B4	294-224-60	40 g
Dentin C1	294-231-30	15 g
Dentin C1	294-231-60	40 g
Dentin C2	294-232-30	15 g
Dentin C2	294-232-60	40 g
Dentin C3	294-233-30	15 g
Dentin C3	294-233-60	40 g
Dentin C4	294-234-30	15 g
Dentin C4	294-234-60	40 g
Dentin D2	294-242-30	15 g
Dentin D2	294-242-60	40 g
Dentin D3	294-243-30	15 g
Dentin D3	294-243-60	40 g
Dentin D4	294-244-30	15 g
Dentin D4	294-244-60	40 g



Standard incisal materials:

Tooth shade	Incisal material	Tooth shade	Incisal material
A1	IT 57	B4	IT 60
A2	IT 57	C1	IT 60
A3	IT 59	C2	IT 59
A3.5	IT 59	C3	IT 59
A4	IT 60	C4	IT 60
B1	IT 57	D2	IT 60
B2	IT 59	D3	IT 59
B3	IT 59	D4	IT 59

Triceram® Individual products



Chroma Opaque CO 1 Bleach	292-301-30	15 g
Chroma Dentin CD 1 Bleach	294-251-30	15 g
Chroma Dentin CD 2 Bleach	294-252-30	15 g
Chroma Dentin CI 1 Bleach	295-701-30	15 g

Bleach

- White and light bleaching materials
- for patients with lighter and previously bleached tooth shades



Chroma Dentin A	294-410-30	15 g
Chroma Dentin B	294-420-30	15 g
Chroma Dentin C	294-430-30	15 g

CD Chroma Dentin

- controls the intensity of the individual shade
- increases the color intensity within the tooth body



Intensive Fluo Dentin creme	294-751-30	15 g
Intensive Fluo Dentin yellow	294-760-30	15 g
Intensive Fluo Dentin orange	294-770-30	15 g
Intensive Fluo Dentin orange plus	294-773-30	15 g

IFD Intensive Fluo Dentin

- fluorescent bold dentin material
- controls the brightness within the build-up



Incisal 57	295-150-30	15 g
Incisal 57	295-150-60	40 g
Incisal 58	295-154-30	15 g
Incisal 58	295-154-60	40 g
Incisal 59	295-160-30	15 g
Incisal 59	295-160-60	40 g
Incisal 60	295-170-30	15 g
Incisal 60	295-170-60	40 g

IT Incisal transparent

- standard incisal material
- application in incisal area



Incisal opal.1 ice white	295-210-30	15 g
Incisal opal.2 polar white	295-215-30	15 g
Incisal opal.3 snow white	295-250-30	15 g
Incisal opal.4 sky blue	295-270-30	15 g
Incisal opal.5 amber	295-280-30	15 g

IO Incisal opalescent

- for incisal alternative layer
- opalescent bluish effect in reflected light, slightly orange effect in permeated light
- intensifies natural refraction of light
- application in incisal area

Triceram® Individual products

NT Neutral transparent

Application as required – depending on patient case

Neutral transparent	294-299-30	15 g
Neutral transparent	294-299-60	40 g



TE Transpa-effect

Can be used in order to increase the lively effect in the incisal area or to obtain individual or characteristic effects.

- incisal alternative layer
- application in incisal area
- natural refraction of light

○	Transpa-effect 1 white	295-350-30	15 g
●	Transpa-effect 2 yellow	295-360-30	15 g
●	Transpa-effect 3 pink	295-385-30	15 g
●	Transpa-effect 4 honey	295-370-30	15 g
●	Transpa-effect 5 blue	295-380-30	15 g
●	Transpa-effect 6 brown	295-367-30	15 g



ST Stains Universal

To obtain modifications in shade. They can be laid in and mixed with the materials. Stains can be mixed up to 10 mass% with the ceramic materials (SM, OD, D, IT, TE, NT + G). If they are mixed with stains universal liquid, these materials are also suitable for painting the surface of the ceramic material.

This material has highly individual characteristics and special depth of color.

Note:

Stains universal can also be used in combination with the CARMEN® system (for mixing and painting).

●	Body Stains A	296-110-10	3 g
●	Body Stains B	296-120-10	3 g
●	Body Stains C	296-130-10	3 g
●	Stains 0 neutral	296-199-10	3 g
○	Stains 1 white	296-150-10	3 g
●	Stains 2 vanilla	296-162-10	3 g
●	Stains 3 yellow	296-160-10	3 g
●	Stains 45 orange plus	296-171-10	3 g
●	Stains 6 pink	296-185-10	3 g
●	Stains 7 dark pink	296-187-10	3 g
●	Stains 8 purple	296-189-10	3 g
●	Stains 9 blue	296-180-10	3 g
●	Stains 10 grey	296-155-10	3 g
●	Stains 11 olive-green	296-193-10	3 g
●	Stains 12 olive-yellow	296-192-10	3 g
●	Stains 13 medium brown	296-167-10	3 g
●	Stains 14 red brown	296-168-10	3 g
●	Stains 15 black	296-198-10	3 g



CM Correction

Use for correcting minor defects (contact points, occlusion area)

- Baking temperature 715°C/1319°F.

Correction material	297-199-10	3 g
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Triceram® Individual products



Gingiva G (light)	298-110-30	15 g
Gingiva GD (dark)	298-120-30	15 g



Gingival G

- For the build-up and reconstruction of gingiva and papilla situation
- Compensates for gingiva defects

Liquids

Stains universal liquid

- for mixing with Stains universal
- for the glaze bake

Shoulder material liquid universal

- for mixing shoulder materials
- increases the stability of shape and edges
- The shoulder material liquid cannot be used together with dentCeram LF

Modelling liquid MV universal

- for increasing plasticity
- especially in dry warm climates
- for prolonging the carving ability

Modelling liquid LV Standard Universal

- standard liquid for mixing of materials

Modelling liquid LV+ Universal

- The material shrinkage has been reduced to a minimum.
- New additives keep the mixing liquid moist for longer. Ceramic remains moist and easy to use throughout the entire build-up.

Universal paste liquid

- to maintain the viscosity of the paste bonder

Universal B.O.L. liquid

- for mixing the powder bonder, opaque and liners

AESTHETIC Bonder liquid

- to maintain the viscosity of the AESTHETIC UNIVERSAL Bonders

Note:

Universal liquids can also be used with the Triceram®, CCS, CARMEN® and dentCeram LF System.



Stains Universal	299-110-40	20 ml
Shoulder material univ.	299-120-40	20 ml
Modelling MV univ.	299-150-40	20 ml
Modelling MV univ.	299-150-80	100 ml
Modelling liquid LV Standard Univ.	299-160-41	20 ml
Modelling liquid LV Standard Univ.	299-160-81	100 ml
Modelling liquid LV Standard Univ.	299-160-91	500 ml
Modelling liquid LV+ Univ.	299-160-40	20 ml
Modelling liquid LV+ Univ.	299-160-80	100 ml
Modelling liquid LV+ Univ.	299-160-99	500 ml
Universal paste liquid	299-170-40	20 ml
Universal paste liquid	299-170-80	100 ml
Universal B.O.L. liquid	299-180-40	20 ml
Universal B.O.L. liquid	299-180-80	100 ml
SM-Isofit	260-324-01	20 ml
AESTHETIC Bonder Liquid	299-200-10	5 ml

Shade guide for Stains universal

Ø 35 mm

291-000-03

1 piece



Shade sample former

For easy preparation of bakesamples

260-315-00

1 piece



Glass slab for stains and materials

280 x 160 x 10 mm

260-302-00

1 piece



Fleece replacement for glass slab

260-303-00

5 Stück



Porcelain slab for stains

295 x 70 x 40 mm

260-304-00

1 piece



SM-Isosfit

To smooth out and seal at the same time. To isolate plaster from ceramics and ceramics from ceramics

260-324-01

20 ml



Teeth Light

Small lamp for demonstration of light dispersion in the ceramic work

260-323-00

1 piece



Accessories



260-300-01	1 piece
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Metal spatula separating knife



260-300-05	1 piece
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Agate spatula



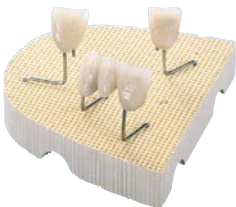
260-300-06	1 piece
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Portion spoon



291-000-00	1 piece
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Glass instrument for bonder and opaque



260-300-03	1 piece
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Firing tray with holders

260-300-13	6 Stück
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Holders for firing tray



260-317-00	10 Stück
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Carbon fibre chips
For purge of ceramic furnaces

Accessories

Stains brush No. 0

260-901-00	1 piece
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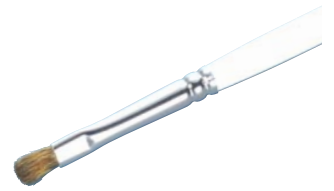
Brush No. 4

260-905-00	1 piece
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Opaque brush No. 6

260-907-10	1 piece
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Big Brush No. 8

260-909-00	1 piece
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remanium[®] crown and bridge alloys



Aesthetical and functional dental restorations for every pocket

A wide field of indications

One material for all applications

The remanium[®] crown and bridge alloys give you the opportunity to use just one material for an entire range of fixed dental restorations. CoCr crown and bridge alloys are the advanced development of removable metal denture alloys. They give the dentist and the dental technician a greater amount of flexibility for prosthetic restorations using non-precious materials.

The economics

Value for money and medically safe

remanium[®] crown and bridge alloys are an economical and medically safe alternative to gold alloys. Both dentist and patient benefit from the improvement of producing essential, basic restorations to the possibility of creating economical, attractive and aesthetical dentistry.

Crown and bridge alloys

State of the art technology

Crown and bridge alloys from Dentaureum are the result of internal research and development together with dentists and dental technicians world wide. The users' increasing demands were also taken into account. With the introduction of remanium® star it is now possible to offer the dental technician a non-precious metal alloy which is easy to process.



Strict quality controls

Reassurance for both user and patient

All Dentaureum crown and bridge alloys undergo strict quality controls and carry the CE standard.



Highest biocompatibility

High resistance to corrosion

Resistance to corrosion and biocompatibility depends upon the chemical composition. remanium® CoCr and remanium® NiCr alloys are highly resistant to corrosion.

All remanium® crown and bridge alloys are free of beryllium, gallium, indium and cadmium. remanium® CoCr alloys are free of nickel.

We are happy to send certificates regarding bio-compatibility on request.



Perfect aesthetics for the highest of demands

remanium® crown and bridge alloys are excellent to veneer

It is possible to create detailed metal framework due to the alloy's distinctly higher modulus of elasticity and the higher fracture elongation in comparison to precious metal alloys. This leaves enough space for the production of ceramic restorations with a natural appearance.

The coefficient of thermal expansion of remanium® ceramic bonding alloys is suitable for all conventional ceramic materials. Excellent bonding strength is therefore possible.





A Name becomes a Program



Three precious metal alloys with a high gold content for excellent bio-compatibility and perfect aesthetics



The metal alloy with extra high strength



The metal alloy for conventional ceramics



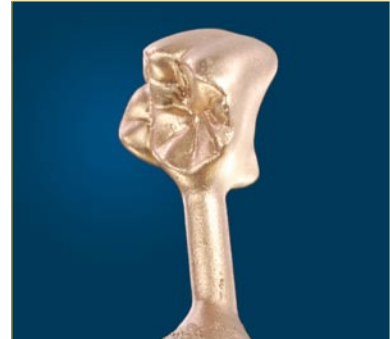
The metal alloy for low fusing ceramics

Large Spectrum of Use

For all areas in restorative dentistry

The precious metal alloy **DentAurum** can be used for all dental technical work in particular:

- metal inlays
- crowns and bridges of any span
- Telescope and milled work



Highly compatible for the patient

Biocompatible

- free of Nickel, Cadmium, Beryllium and Iron
- highly corrosion resistant
- Certificate of biocompatibility will be sent to you on request
- CE 0483 – for assurance in the laboratory and dental surgery



Perfect Aesthetics

Even the highest of demands can be fulfilled

DentAurum Bio can be bonded with any ceramic on the market with a suitable CTE of $14.1 \times 10^{-6} \text{ K}^{-1}$ (25 °C – 500 °C / 77 – 932 °F) or $14.3 \times 10^{-6} \text{ K}^{-1}$ (25 °C – 600 °C / 77 – 1112 °F).

We recommend CARMEN® or CCS from Dentaaurum.



Natural Beauty

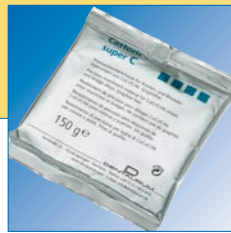
Realistic Radiance

DentAurum LFC can be bonded with any ceramic on the market with a suitable CTE of $16.2 \times 10^{-6} \text{ K}^{-1}$ (25 °C – 500 °C / 77 – 932 °F) or $16.6 \times 10^{-6} \text{ K}^{-1}$ (25 °C – 600 °C / 77 – 1112 °F).

We recommend dentCeram LF from Dentaaurum.



C+B investment materials



accurate in precision and handling



The speed-technology without compromises for an efficient operating cycle. Expansion precisely adjustable for all possible applications. Long processing times and a very creamy consistency after mixing allows an easy handling.

Castorit®-super C

The "classic" for all non-precious alloys.



The crown and bridge investment for non precious alloys. Excellent control of expansion. Due to high expansion recommended for the double crown technique.

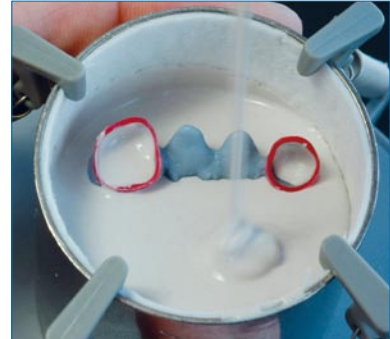
DentAurum Vest

The new innovative investment material especially for precious alloys: the top in precious of fit.

Largest range of investment material

Here you will find the investment material of your choice

Dentaurum covers a whole spectrum of techniques with its large range of investment material. Whether for metal dentures or crown and bridge techniques, whether for the conventional method or for speed heating, whether for precious metal alloys, non-precious metal alloys or titanium, the world's largest manufacturer of investment materials can offer the correct investment for each individual technique.



Batch consistency throughout due to strict regulations and final check

An accurate fit is reliably reproduced

Prior to filling into the proportioned aluminium foil bags, the quality of the investment material is examined according to dental technical standards after DIN and ISO.



Extremely smooth surfaces

Consistent casting quality produces an exact reproduction of the wax pattern

The finely grained powder mixture aids in creating smooth cast metal surfaces. These smooth surfaces in turn save time and effort when finishing and polishing the cast objects, an advantage in the busy day to day work in a laboratory.



Easy divestment and excellent sandblasting qualities

Refreshingly simple to use

Easy devesting and blasting saves time and energy, allowing more time for other important tasks.



The precious alloys at a glance

				Composition (percentage by mass)										
		Norm	Type ¹	Indication ²	Color	Au	Pt	Pd	Au-and Pt- metals	Ag	Cu	In	Zn	Other
DentAurum Classic	Casting alloy	DIN EN ISO 1562	4	1,2,3,4,5	yellow	70.0	3.9	2.0	76.0	13.0	9.5	-	1.5	0.1 Ir
DentAurum Bio	Ceramic bonding alloy ³	DIN EN ISO 9693 DIN EN ISO 1562		1,2,3,4,5	yellow	86.2	11.5	-	98.1	-	-	-	1.5	0.4 Ru, 0.3 Ta, 0.1 Mn
DentAurum LFC	Ceramic bonding alloy ⁴	DIN EN ISO 9693 DIN EN ISO 1562		1,2,3,4,5	yellow	73.8	9.0	-	82.9	9.2	4.4	1.5	2.0-	0.1 Ir

Alloy	Density (g/cm ³)	Hardness (HV5/30)			0.2% Yield strength (MPa)			Elongation (%)			Tempering	
		w	a	g/b	w	a	g/b	w	a	g/b	Recrystallization 15 min. °C	Hardening 15 min. °C
DentAurum Classic	15.4	170	245	245	385	640	615	25	10	15	700	400
DentAurum Bio	19.1	150	170	190	340	500	515	30	12	10	800	450
DentAurum LFC	16.6	150	250	200	340	600	480	25	15	15	800	400

¹ Type:

1 Low strength; 2 Medium strength; 3 High strength; 4 Extra-high strength

² Indication:

(1) metal inlays; (2) Crowns and bridges with a span of up to 2 pontics between abutment teeth; (3) Crowns and bridges with any span; (4) Telescope and milled work; (5) non-precious model casting alloys and supra-structures.

³ for bonding ceramics with conventional firing temperatures and conventional CTE; we recommend CARMEN® from Dentaurum.

⁴ for low firing, high expansion bonding ceramics, for example Duceragold

w: soft - a: hardened - g/b: after casting or firing

		Melting interval (°C)	Pre-heating temperature (°C)	Melting temperature (°C)	Further heating after melting (s)			CTE 25-500/600°C (10 ⁻⁶ K ⁻¹)	Solders	
					electric	induction	Torch		Main solder DentAurum S 825	Repair solder DentAurum S 760
DentAurum Classic	Casting alloy	900-935	700	1070	15-20	5-8	5-8			
DentAurum Bio	Ceramic bonding alloy ¹	1040-1100	850	1250	60-90	5-10	5-10	14.1/14.3	Before firing DentAurum S 1020	After firing DentAurum S 720 (copper free)
DentAurum LFC	Ceramic bonding alloy ²	900-980	700	1120	15-20	5-8	5-8	16.2/16.6	Before firing DentAurum S 880	After firing DentAurum S 720 (copper free)

Alloy	Conversion table for the total amount metal required according to the wax pattern weight ³													
	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	3.0	4.0	5.0	
DentAurum Classic	3.5	6.9	10.3	13.7	17.2	20.6	24.0	27.4	30.8	34.3	51.4	68.5	85.6	
DentAurum Bio	4.3	8.5	12.8	17.0	21.2	25.5	29.8	34.0	38.2	42.5	63.7	84.9	106.2	
DentAurum LFC	3.7	7.4	11.1	14.7	18.4	22.1	25.8	29.5	33.2	36.9	55.3	73.8	92.2	

All values given in grammes.

¹ for bonding ceramics with conventional firing temperatures and conventional CTE; we used CARMEN® from Dentaurum.

² for low fusing, high expansion bonding ceramics, for example Duceragold

³ Metal weights apply for the vacuum pressure casting method. For the centrifugal casting method another 5 g of material should be added for the casting button.

Precious casting alloys



102-520-00	1 g
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CE 0483

Composition (percentage by mass)

Au + Pt-metals: 76 %

Au	Pt	Pd	Ag	Cu	Zn
70.0	3.9	2.0	13.0	9.5	1.5

Additional elements less than 1%: Ir (0.1)

DentAurum Classic

DentAurum Classic is a precious metal casting alloy with a high gold content and is classed as having extra high strength (Type 4) according to DIN EN ISO 1562.

Color: yellow

DentAurum Classic can be used for all dental technical work which does not require ceramic bonding, in particular suitable for:

- metal inlays
- crowns and bridges of any span
- Telescope and milled work

Bio-compatible:

- free of Nickel, Cadmium, Beryllium, Gallium, Indium and Iron
- highly corrosion resistant
- Certificate of Cytotoxicity will be sent to you on request.
- CE 0483 – for assurance in the laboratory and dental surgery.

Technical Data (DIN EN ISO 1562)

	w	a	g	
Yield strength $R_{p,0.2}$	385	640	615	MPa
Hardness HV 5	170	245	245	
Elongation	25	10	15	%
Modulus of elasticity E		96		GPa
Density		15.4		g/cm ³
Solidus temp.		900/1652		°C/°F
Liquidus temp.		935/1715		°C/°F

w: soft, a: hardened, g/b: after casting or firing



102-530-00	1 g
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CE 0483

Composition (percentage by mass)

Au + Pt-metals: 98.1 %

Au	Pt	Zn
86.2	11.5	1.5

Additional elements less than 1%:

Ru (0.4), Ta (0.3), Mn (0.1)

DentAurum Bio

DentAurum Bio is a precious metal bonding alloy with a high gold content according to DIN EN ISO 9693 and DIN EN ISO 1562.

Color: yellow

DentAurum Bio can be used for all areas of restorative dentistry, in particular suitable for crowns and bridges of any span.

Bio-compatible:

- free of Palladium, Copper, Nickel, Cadmium, Beryllium, and Iron
- highly corrosion resistant
- Certificate of Cytotoxicity will be sent to you on request.
- CE 0483 – for assurance in the laboratory and dental surgery.

Technical Data (DIN EN ISO 9693 and 1562)

	w	a	g/b	
Yield strength $R_{p,0.2}$	340	500	515	MPa
Hardness HV 5	150	170	190	
Elongation	30	12	10	%
Modulus of elasticity E		98		GPa
Density		19.1		g/cm ³
CTE 25-500°C/77-932°F		14.1		10 ⁻⁶ K ⁻¹
CTE 25-600°C/77-1112°F		14.3		10 ⁻⁶ K ⁻¹
Solidus-Temp.		1040/1904		°C/°F
Liquidus-Temp.		1100/2012		°C/°F

w: soft, a: hardened, g/b: after casting or firing

DentAurum LFC

DentAurum LFC is a precious metal bonding alloy with a high gold content for low fusing ceramic materials, according to DIN EN ISO 9693 and DIN EN ISO 1562.

Color: yellow

DentAurum LFC can be used for all areas of restorative dentistry, in particular suitable for:

- metal inlays
- crowns and bridges of any span
- Telescope and milled work

Bio-compatible:

- free of Palladium, Nickel, Cadmium, Beryllium, and Iron
- highly corrosion resistant
- Certificate of Cytotoxicity will be sent to you on request.
- CE 0483 – for assurance in the laboratory and dental surgery.

Technical Data (DIN EN ISO 9693)

	w	a	g/b	
Yield strength $R_{p0.2}$	340	600	480	MPa
Hardness HV 5	150	250	200	
Elongation	25	15	15	%
Modulus of elasticity E		100		GPa
Density		16.6		g/cm^3
CTE 25-500°C/77-932°F		16.2		$10^{-6} K^{-1}$
CTE 25-600°C/77-1112°F		16.6		$10^{-6} K^{-1}$
Solidus-Temp.		900/1652		°C/°F
Liquidus-Temp.		980/1796		°C/°F

w: soft, a: hardened, g/b: after casting or firing

102-540-00	1 g
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CE 0483



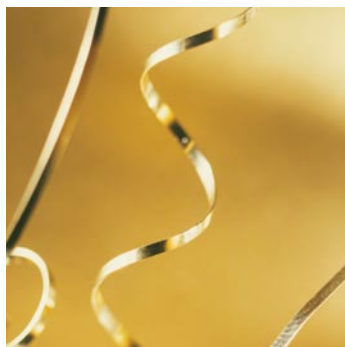
Composition (percentage by mass)

Au + Pt-metals: 82.9 %

Au	Pt	Ag	Cu	In	Zn
73.8	9.0	9.2	4.4	1.5	2.0

Additional elements less than 1%: Ir (0.1)

Precious alloys: accessories



DentAurum S 720	102-581-00	4 g
DentAurum S 760	102-582-00	4 g
DentAurum S 825	102-583-00	4 g
DentAurum S 880	102-584-00	4 g
DentAurum S 1020	102-585-00	4 g
White gold solder	380-600-50	approx. 1.8 g

CE 0483

Solder

Recommendations for joining techniques:

- DentAurum Classic: DentAurum S 825 and S 760
- DentAurum Bio: DentAurum S 1020 and S 720
- DentAurum LFC: DentAurum S 880 and S 720

Reliable Handling

- Optimally coordinated composition of alloy and solder
- All DentAurum Solders are free of palladium and cadmium tin

Solder	Color	Composition (percentage by mass)							Working temperature (°C)	Indication
		Au	Pt	Ir	Au- and Pt-metals	Ag	Cu	Zn		
S 1020	yellow	80.0	0.9	0.1	81	17.0	-	2.0	1020	Before bake
S 880	yellow	76.0	2.9	0.1	79	10.0	6.0	5.0	880	Before bake
S 720 copper free	yellow	74.0	0.9	0.1	75	10.0	-	15.0	720	After bake
S 825	yellow	75.0	-	-	75	7.5	9.5	8.0	825	(Solder 1) Main solder
S 760	yellow	75.0	-	-	75	5.0	7.0	13.0	760	(Solder 2) Repair solder



102-589-00

50 g

681-100-00

50 g

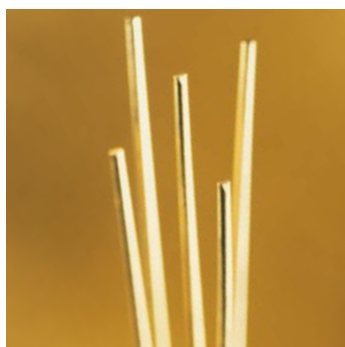
Flux

DentAurum Flux in container

- Flux specially for soldering precious metals

Dentaflex in bottle

- the Universal flux for all types of alloy.
- Specially for soldering a combination of precious metal alloy and non-precious metal alloys



DentAurum C 4	102-521-00	10 pieces	approx. 1.8 g
DentAurum B 4	102-531-00	10 pieces	approx. 2.4 g
DentAurum LFC 4	102-541-00	10 pieces	approx. 2.0 g

Welding wires

Constituents

The constituents within the welding wires are the same as the relevant Dent Aurum alloy: One step further in the quest towards reducing the amount of metals in the patient's mouth to a minimum.

Recommendations for joining techniques:

Dentaurum recommends laser welding using standardized materials as a joining technique. The joints are stronger and more bio-compatible.

- DentAurum Classic: DentAurum C 4
- DentAurum Bio: DentAurum B 4
- DentAurum LFC: DentAurum LFC 4

remanium® Crown and Bridge CoCr alloys at a glance

	remanium® star	remanium® 2000+																		
Characteristics	remanium® star is a CoCr ceramic bonding alloy of a new generation with exceptionally reduced hardness.	remanium® 2000+ is a CoCr ceramic bonding alloy of a new generation. This alloy is the result of our continuous development of our classic remanium® 2000. Optimal physical properties due to the continuous casting technique.																		
Applications	Multi-purpose alloy: <ul style="list-style-type: none"> • Crowns and bridges • Double crowns • Implant supported supra structures • Maryland bridges • Secondary structures for cast partial denture (Combination work) 	Multi-purpose alloy: <ul style="list-style-type: none"> • Crowns and bridges • Double crowns • Implant supported supra structures • Maryland bridges • Secondary structures for cast partial denture (Combination work) 																		
Advantages	<ul style="list-style-type: none"> • Extremely easy to work with, especially when milling or polishing due to the reduced hardness • Excellent ceramic bake because of the low thermal expansion coefficient • Exceptionally free-flowing • Flexibility in casting: Can be melt in a high frequency induction casting unit, or with the propane/oxygen torch • Increased efficiency: <ul style="list-style-type: none"> ✓ Oxide bake is not necessary ✓ Suitable for laser welding because carbon-free 	<ul style="list-style-type: none"> • Exceptionally free-flowing • Flexibility in casting: <ul style="list-style-type: none"> Can be melted in a high frequency induction casting unit, or with the propane/oxygen torch • Increased efficiency: <ul style="list-style-type: none"> ✓ Oxide bake is not necessary • Suitable for laser welding because carbon-free • The surface of ingot of 6 grams produced by the continuous casting technique is 30 % lower than the surface of an ingot produced by the investment casting technique. This results in less oxides in the crucible. 																		
Composition (Percentage by mass)	<table border="1"> <tr> <td>Co</td> <td>Cr</td> <td>W</td> <td>Si</td> </tr> <tr> <td>60.5</td> <td>28</td> <td>9</td> <td>1.5</td> </tr> </table>	Co	Cr	W	Si	60.5	28	9	1.5	<table border="1"> <tr> <td>Co</td> <td>Cr</td> <td>Mo</td> <td>W</td> <td>Si</td> </tr> <tr> <td>61</td> <td>25</td> <td>7</td> <td>5</td> <td>1.5</td> </tr> </table>	Co	Cr	Mo	W	Si	61	25	7	5	1.5
Co	Cr	W	Si																	
60.5	28	9	1.5																	
Co	Cr	Mo	W	Si																
61	25	7	5	1.5																
Other < 1%	Mn, N, Nb	Mn, N																		

Summary relevant characteristics

Melting	+++	+++
Castability	+++	+++
Propane/oxygen melt	+++	+++
Trimming	+++	++
Milling	+++	++
Ceramic bonding	+++	+++
Polishing	+++	+++
Oxid bake	No	No
Soldering with CoCr-Solder	REF 102-306-00	REF 102-306-00
Laser welding	+++	+++
Investment material	Trivest, Castorit® all speed, Castorit®-super C	Trivest, Castorit® all speed, Castorit®-super C

Mechanical characteristics

Yield strength $R_{p,0.2}$ (MPa)	620	700
Tensile strength R_m (MPa)	845	900
Modulus of elasticity E (GPa)	190	200
Hardness HV 10	280	340
Elongation A_5 (%)	10.2	7
Solidus temperature (°C/°F)	1320 / 2408	1290 / 2354
Liquidus temperature (°C/°F)	1420 / 2588	1415 / 2579
Density (g/cm³)	8.6	8.6
CTE (25–500°C/77–932°F) (K ⁻¹)	14.1 x 10 ⁻⁶	14.1 x 10 ⁻⁶

Ordering informations

Availability	50 g REF 102-621-00	50 g REF 102-601-10
	250 g REF 102-622-00	250 g REF 102-602-10
	1000 g REF 102-620-00	1000 g REF 102-600-10

Safety through certified quality 0483

Best biocompatibility: Laboratory tests confirm the outstanding corrosion resistance, and tests conducted by independent institutes acknowledge the biological compatibility on the basis of cytotoxicity tests. Please request our certifications. All CoCr crown and bridge alloys are free of beryllium, iron (except remanium® LFC), nickel, gallium, indium and copper.

+++ = excellent ++ = very good

¹ LFC = Low Fusing Ceramics

Crowns and bridges

remanium® *secura*

remanium® *secura* is a new generation chrome cobalt metal-ceramic alloy, that shows reliable handling characteristics with all casting techniques, especially vacuum/pressure casting.

Multi-purpose alloy:

- Crowns and bridges
- Double crowns
- Implant supported supra structures
- Maryland bridges
- Secondary structures for cast partial denture (Combination work)

- reliable melting and casting characteristics, especially with vacuum/pressure casting, resulting from the narrow melting range.
- no danger of spattering or increased slagging
- small ingots (4g) allow exact portioning of the alloy: ideal and economical filling of the crucible
- high mechanical strength thanks to tantalum mixed-crystal reinforcement
- optimised bake behaviour of the veneering ceramic through low oxidation
- polished surface has a radiant lustre due to the high chrome content.

Co	Cr	Mo	W	Si	Ta
58	30	3	5.5	1.5	1.25

N

remanium® 2001

remanium® 2001 is a CoCr ceramic bonding alloy for crown and bridgework. Optimal physical properties due to the continuous casting technique.

Multi-purpose alloy:

- Crowns and bridges
- Double crowns
- Maryland bridges

- Exceptionally free-flowing
- Flexibility in casting:
Can be melt in a high frequency induction casting unit, or with the propane/oxygen torch
- Increased efficiency:
✓ Oxide bake is not necessary
- Suitable for laser welding because carbon-free

Co	Cr	Mo	W	Si
63	23	7.3	4.3	1.6

Mn, N

remanium® LFC

remanium® LFC is a modern chrome cobalt alloy specially designed for metal-ceramic veneering of crown and bridgework using low-fusing ceramic (LFC).

Multi-purpose alloy:

- Crowns and bridges
- Double crowns
- Secondary structures for cast partial denture (Combination work)

- excellent melting and casting behaviour with all melting and casting techniques
- effortless trimming and polishing
- free from nickel and beryllium
- high purity resulting from continuous casting production
- multi-indicative
- reliable veneering using LFC-ceramics which, until now, were used only with precious alloys
- high corrosion resistance
- high mechanical strength
- good laser welding characteristics

Co	Cr	Fe	Mo	Mn
33	30	29	5	1.5

Si, N, C

+++

+++

+++

++

++

+++

+++

No

REF 102-306-00

+++

Trivest, Castorit® all speed, Castorit®-super C

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No

REF 102-306-00

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Trivest, Castorit® all speed, Castorit®-super C

+++

+++

+++

+++

+++

+++ (LFC¹)

+++

No

REF 102-306-00

+++

Trivest, Castorit® all speed, Castorit®-super C

760

940

211

340

5.3

1329 / 2424

1385 / 2525

8.6

14.4 x 10⁻⁶

660

850

195

336

5.5

1325 / 2417

1415 / 2579

8.6

14.2 x 10⁻⁶

660

950

200

315

11

1280 / 2336

1350 / 2462

8.2

15.9 x 10⁻⁶

50 g REF 102-631-00
250 g REF 102-632-00
1000 g REF 102-630-00

50 g REF 102-600-02
1000 g REF 102-600-01

50 g REF 102-641-00
250 g REF 102-642-00
1000 g REF 102-640-00

Ceramic bonding alloys and solder



102-621-00	50 g
102-622-00	250 g
102-620-00	1000 g

CE 0483



remanium® star CoCrW ceramic bonding alloy

Exceptionally reduced hardness

Advantages:

- Extremely easy to work with, especially when milling or polishing due to the exceptionally reduced hardness
- Excellent ceramic bake because of the low coefficient of thermal expansion
- Exceptionally free-flowing
- Flexibility in casting: Can be melted in a high frequency induction casting unit, or with the propane/oxygen torch
- Increased efficiency
- Long time cooling is only recommended for large bridge work
- No oxide bake required
- Suitable for laser welding because it is carbon free

Applications:

- Crowns and bridges
- Double crowns
- Implant supported supra structures
- Maryland bridges
- Secondary components for cast partial dentures (Combination work)

Composition (percentage by mass)

Co	Cr	W	Si
60.5	28	9	1.5

Additional elements less than 1%: Mn, N, Nb

Technical Data (ISO 9693)

Yield strength $R_{p0.2}$	620 MPa
Tensile strength R_m	845 MPa
Hardness HV 10	280
Elongation A_5	10.2 %
Modulus of elasticity E	190 GPa
Density	8.6 g/cm ³
CTE 25-500°C/77-932°F	14.1 x 10 ⁻⁶ K ⁻¹
Solidus temperature	1320/2408 °C/°F
Liquidus temperature	1420/2588 °C/°F

Welding wires see page 218



102-306-00	1 piece
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CE 0483

Composition (percentage by mass)

Co	Cr	Mo	Si	B
69.8	19	5	5	1.2

CoCrMo-Sold 1

Presolder

Pure CoCrMo solder, approx. 3 g.
Nickel free. No discoloration. Corrosion resistant.

Solidus: 1110°C/2030°F
Liquidus: 1162°C/2124°F

rema®-Flux 1

Flux, for CoCrMo-Sold 1 and NiCr-Sold 1.



102-304-00	25 g
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Ceramic bonding alloys and solder

remanium® 2000+ CoCrMoW ceramic bonding alloy

This alloy is the result of our continuous development of some of our classics. Optimal physical properties due to the continuous casting method.

Advantages:

- Exceptionally free-flowing
- Flexibility in casting: Can be melt in a high frequency induction casting unit, or with propane/oxygen torch
- Increased efficiency
- No oxide firing required
- Suitable for laser welding because it is carbon-free
- Batch code on every single ingot, therefore every ingot can be identified (important for the quality management system)

Applications:

- Crowns and bridges
- Double crowns
- Implant supported supra structures
- Maryland bridges
- Secondary components for cast partial dentures (Combination work)

102-601-10	50 g
102-602-10	250 g
102-600-10	1000 g

CE 0483



Technical Data (ISO 9693)

Yield strength $R_{p0.2}$	700 MPa
Tensile strength R_m	900 MPa
Hardness HV 10	340
Elongation A_5	7 %
Modulus of elasticity E	200 GPa
Density	8.6 g/cm ³
CTE 25-500°C/77-932°F	14 x 10 ⁻⁶ K ⁻¹
Solidus temperature	1290/2354 °C/°F
Liquidus temperature	1415/2579 °C/°F

Composition (percentage by mass)

Co	Cr	Mo	W	Si
61	25	7	5	1.5

Additional elements less than 1%: Mn, N

Welding wires see page 218

CoCrMo-Sold 1

Presolder

Pure CoCrMo solder, approx. 3 g.
Nickel free. No discoloration. Corrosion resistant.

Solidus:	1110°C/2030°F
Liquidus:	1162°C/2124°F

102-306-00	1 piece
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CE 0483

Composition (percentage by mass)

Co	Cr	Mo	Si	B
69.8	19	5	5	1.2



rema®-Flux 1

Flux, for CoCrMo-Sold 1 and NiCr-Sold 1.

102-304-00	25 g
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Ceramic bonding alloys and solder



102-631-00	50 g
102-632-00	250 g
102-630-00	1000 g

CE 0483



remanium® *secura* CoCr ceramic bonding alloy

New generation chrome cobalt metal-ceramic alloy, that shows reliable handling characteristics with all casting techniques, especially vacuum/pressure casting.

Advantages:

- reliable melting and casting characteristics, especially with vacuum/pressure casting, resulting from the narrow melting range
- no danger of spattering or increased slagging
- small ingots (4g) allow exact portioning of the alloy: ideal and economical filling of the crucible
- high mechanical strength thanks to tantalum mixed-crystal reinforcement
- optimised firing behaviour of the veneering ceramics through low oxidation
- polished surface has a radiant lustre due to the high chrome content.

Composition (percentage by mass)

Co	Cr	Mo	W	Si	Ta
58	30	3	5.5	1.5	1.25

Additional elements less than 1%: N

Technical Data (ISO 9693)

Yield strength $R_{p0.2}$	760 MPa
Tensile strength R_m	940 MPa
Hardness HV 10	340
Elongation A_5	5.3 %
Modulus of elasticity E	211 GPa
Density	8.6 g/cm ³
CTE 25-500°C/77-932°F	14.4 x 10 ⁻⁶ K ⁻¹
Solidus temperature	1329/2424 °C/°F
Liquidus temperature	1385/2525 °C/°F

Welding wires see page 218



102-306-00	1 piece
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CE 0483

Composition (percentage by mass)

Co	Cr	Mo	Si	B
69.8	19	5	5	1.2

CoCrMo-Sold 1

Presolder

Pure CoCrMo solder, approx. 3 g. Nickel free. No discoloration. Corrosion resistant.

Solidus:	1110°C/2030°F
Liquidus:	1162°C/2124°F



102-304-00	25 g
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rema®-Flux 1

Flux, for CoCrMo-Sold 1 and NiCr-Sold 1.

Ceramic bonding alloys and solder

remanium® 2001 CoCrMoW ceramic bonding alloy

A continuous vacuum cast alloy.
Especially suited for torch melting.

Advantages:

- remanium® 2001 is easy to handle, solder, weld, erode and mill.
- remanium® 2001 is corrosion resistant, nickel, beryllium and iron free.
- remanium® 2001 stands for cost effective and nonallergenic restorations.
- Suitable for laser welding.

102-600-02	50 g
102-600-01	1000 g

CE 0483



Technical Data (ISO 9693)

Yield strength $R_{p0.2}$	660 MPa
Tensile strength R_m	850 MPa
Hardness HV 10	336
Elongation A_5	5.5 %
Modulus of elasticity E	195 GPa
Density	8.6 g/cm ³
CTE 25-500°C/77-932°F	14.2 x 10 ⁻⁶ K ⁻¹
Solidus temperature	1325/2417 °C/°F
Liquidus temperature	1415/2579 °C/°F

Composition (percentage by mass)

Co	Cr	Mo	W	Si
63	23	7.3	4.3	1.6

Additional elements less than 1%: Mn, N

Welding wires see page 218

CoCrMo-Sold 1

Presolder

Pure CoCrMo solder, approx. 3 g.
Nickel free. No discoloration. Corrosion resistant.

Solidus:	1110°C/2030°F
Liquidus:	1162°C/2124°F

102-306-00	1 piece
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CE 0483

Composition (percentage by mass)

Co	Cr	Mo	Si	B
69.8	19	5	5	1.2



rema®-Flux 1

Flux, for CoCrMo-Sold 1 and NiCr-Sold 1.

102-304-00	25 g
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Ceramic bonding alloys and solder



102-641-00	50 g
102-642-00	250 g
102-640-00	1000 g

CE 0483



remanium® LFC CoCr ceramic bonding alloy

For use with low fusing, high expansion bonding ceramics (LFC). Crown and bridge alloy produced using the extrusion casting process.

Advantages:

- Specialised bonding alloy for use with low fusing ceramics within the suitable CTE range (LFC)
- excellent melting and casting behaviour with all melting and casting techniques
- effortless trimming and polishing
- free from nickel and beryllium
- high purity resulting from continuous casting production
- Multi-purpose alloy for crown and bridge-work, combination work
- high corrosion resistance
- high mechanical strength
- good laser welding characteristics

Technical Data (ISO 9693)

Yield strength $R_{p0.2}$	660 MPa
Tensile strength R_m	950 MPa
Hardness HV 10	315
Elongation A_5	11 %
Modulus of elasticity E	200 GPa
Density	8.2 g/cm ³
CTE 25-500°C/77-932°F	$15.9 \times 10^{-6} \text{ K}^{-1}$
Solidus temperature	1280/2336 °C/°F
Liquidus temperature	1350/2462 °C/°F

Composition (percentage by mass)

Co	Cr	Fe	Mo	Mn
33	30	29	5	1.5

Additional elements less than 1%: Si, N, C

Welding wires see page 218



102-306-00	1 piece
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CE 0483

Composition (percentage by mass)

Co	Cr	Mo	Si	B
69.8	19	5	5	1.2

CoCrMo-Sold 1

Presolder

Pure CoCrMo solder, approx. 3 g. Nickel free. No discoloration. Corrosion resistant.

Solidus:	1110°C/2030°F
Liquidus:	1162°C/2124°F



102-304-00	25 g
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rema®-Flux 1

Flux, for CoCrMo-Sold 1 and NiCr-Sold 1.

Crowns and bridges

remanium® Crown and bridge NiCr alloys at a glance

	remanium® CSe	remanium® CS	remanium® G-soft
Characteristics	Latest generation NiCrMo bonding alloy in a user friendly condition. Extrusion cast production	Classical NiCrMo bonding alloy with top working characteristics. Precision cast production	Well proven NiCrMo casting alloy for full gold crowns and for veneering with acrylic composite.
Applications	Multi-purpose alloy: <ul style="list-style-type: none"> • Crowns and bridges • Double crowns • Supra structures • Maryland bridges 	Multi-purpose alloy: <ul style="list-style-type: none"> • Crowns and bridges • Double crowns • Supra structures • Maryland bridges 	Multi-purpose alloy: <ul style="list-style-type: none"> • Crowns and bridges • Double crowns • Supra structures • Maryland bridges
Advantages	<ul style="list-style-type: none"> • Excellent porcelain fusion • Easy handling • Biocompatible, beryllium free • No slow cooling • Easy to melt 	<ul style="list-style-type: none"> • Excellent porcelain fusion • Easy handling • Biocompatible, beryllium free • No slow cooling • Easy to melt 	<ul style="list-style-type: none"> • Easy handling • Biocompatible, beryllium free • Easy to melt
Composition (Percentage by mass)	Ni 61 Cr 26 Mo 11 Si 1.5	Ni 61 Cr 26 Mo 11 Si 1.5	Ni 66 Cr 26.5 Mo 5 Si 1.5
Other < 1%	Co, Fe, Ce	Co, Fe, Ce	Mn, B

Summary relevant characteristics

Melting	+++	+++	+++
Castability	+++	+++	+++
Propane/oxygen melt	+++	+++	+++
Trimming	+++	+++	+++
Milling	+++	+++	+++
Ceramic bonding	+++	+++	–
Polishing	+++	+++	+++
Oxid bake	No	No	No
Soldering with CoCr-Solder	REF 102-302-00	REF 102-302-00	REF 102-302-00
Laser welding	+++ NiCr welding wire REF 528-220-00	+++ NiCr welding wire REF 528-220-00	+++ NiCr welding wire REF 528-220-00
Investment material	Trivest, Castorit® all speed, Castorit®-super C	Trivest, Castorit® all speed, Castorit®-super C	Trivest, Castorit® all speed, Castorit®-super C

Mechanical characteristics

Yield strength R_{p0.2} (MPa)	340	340	310
Tensile strength R_m (MPa)	580	580	550
Modulus of elasticity E (GPa)	170	170	165
Hardness HV 10	195	195	210
Elongation A₅ (%)	15	15	8
Solidus temperature (°C/°F)	1260	1260	1210
Liquidus temperature (°C/°F)	1350	1350	1240
Density (g/cm³)	8.2	8.2	8.2
CTE (25–500°C/77–932°F) (K⁻¹)	14 x 10 ⁻⁶	14 x 10 ⁻⁶	–

Ordering informations

Availability	50 g REF 102-401-05 1000 g REF 102-403-05	50 g REF 102-401-00 1000 g REF 102-403-00	1000 g REF 100-001-00
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Safety through certified quality



Best biocompatibility: Laboratory tests confirm the outstanding corrosion resistance, and tests conducted by independent institutes acknowledge the biological compatibility on the basis of cytotoxicity tests. Please request our certifications. All NiCr crown and bridge alloys are free of beryllium, gallium, indium and copper.

+++ = excellent – = not suitable

remanium® CSe NiCrMo ceramic bonding alloy

remanium® CSe was developed as an improved version of the well proven alloy remanium® CS. It is suitable for crown and bridgework and is manufactured in the continuous casting technique. The analytic check of each batch guarantees a pure, homogenous alloy for problem free processing.

Advantages:

- Excellent porcelain fusion – even after multiple bakes
- Easy handling due to reduced surface hardness
- Beryllium free, biocompatible
- Orally stable and corrosion resistant due to high amount of chrome and molybdenum
- Fast and easy to melt
- No sparking when melted with torch
- No slow cooling required when baking ceramics
- Continuous casting manufacturing provides highly homogenous composition of each ingot
- Excellent for laser welding
- Each ingot is marked with batch number

102-401-05	50 g
102-403-05	1000 g

CE 0483



Technical Data (ISO 9693)

Yield strength $R_{p0.2}$	340 MPa
Tensile strength R_m	580 MPa
Hardness HV 10	195
Elongation A_5	15 %
Modulus of elasticity E	170 GPa
Density	8.2 g/cm ³
CTE 25-500°C/77-932°F	14 x 10 ⁻⁶ K ⁻¹
Solidus temperature	1260/2300 °C/°F
Liquidus temperature	1350/2462 °C/°F

Composition (percentage by mass)

Ni	Cr	Mo	Si
61	26	11	1.5

Additional elements less than 1%: Co, Fe, Ce.

Welding wires see page 218

NiCr-Sold 1

Presolder

approx. 3 g.

Solidus: 1115°C/2039°F

Liquidus: 1165°C/2129°F

102-302-00	1 piece
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CE 0483

Composition (percentage by mass)

Ni	Cr	Mo	Si	B
63	19	10	7	1



rema®-Flux 1

Flux, for CoCrMo-Sold 1 and NiCr-Sold 1.

102-304-00	25 g
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Ceramic bonding alloys and solder



102-403-00	1000 g
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CE 0483



remanium® CS NiCrMo ceramic bonding alloy

remanium® CS is suitable for crown and bridgework and is produced using the precision cast method. The analytic check of each batch guarantees a pure, homogenous alloy for problem free processing.

Advantages:

- Excellent porcelain fusion – even after multiple bakes
- Easy handling due to reduced surface hardness
- Beryllium free, biocompatible
- Orally stable and corrosion resistant due to high amount of chrome and molybdenum
- Fast and easy to melt
- No sparking when melted with torch
- No slow cooling required when baking ceramics
- Excellent for laser welding

Composition (percentage by mass)

Ni	Cr	Mo	Si
61	26	11	1.5

Additional elements less than 1%: Co, Fe, Ce.

Technical Data (ISO 9693)

Yield strength $R_{p0.2}$	340 MPa
Tensile strength R_m	580 MPa
Hardness HV 10	195
Elongation A_5	15 %
Modulus of elasticity E	170 GPa
Density	8.2 g/cm ³
CTE 25-500°C/77-932°F	14 x 10 ⁻⁶ K ⁻¹
Solidus temperature	1260/2300 °C/°F
Liquidus temperature	1350/2462 °C/°F

Welding wires see page 218



102-302-00	1 piece
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CE 0483

Composition (percentage by mass)

Ni	Cr	Mo	Si	B
63	19	10	7	1

NiCr-Sold 1

Presolder

approx. 3 g.

Solidus:	1115 °C/2039 °F
Liquidus:	1165 °C/2129 °F



102-304-00	25 g
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rema®-Flux 1

Flux, for CoCrMo-Sold 1 and NiCr-Sold 1.

remanium® G-soft NiCrMo based casting alloy for crown and bridge work, for resin veneers

Advantages:

- remanium® G-soft is free-flowing; it melts, finishes and polishes as easy as gold.
- remanium® G-soft does not discolor and has a pleasing platinum appearance. The finished casting can be veneered with resin and can be gold plated.

Recommendation:

For perfect fitting castings with remanium® G-soft we recommend Castorit®-super C with mixing liquid C or Castorit® all speed .

Melting and casting:

remanium® G-soft can be melted in high fre-quency induction casting units or by torch.

100-001-00	1000 g
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CE 0483



Technical Data (ISO 16744)

Yield strength $R_{p0.2}$	310 MPa
Tensile strength R_m	550 MPa
Hardness HV 10	210
Elongation A_5	8 %
Modulus of elasticity E	165 GPa
Density	8.2 g/cm ³
Solidus temperature	1210/2210 °C/°F
Liquidus temperature	1240/2264 °C/°F

Composition (percentage by mass)

Ni	Cr	Mo	Si
66	26.5	5	1.5

Additional elements less than 1%: Mn, B.

Welding wires see page 218

NiCr-Sold 1

Presolder

approx. 3 g.

Solidus: 1115°C/2039°F

Liquidus: 1165°C/2129°F

102-302-00	1 piece
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CE 0483

Composition (percentage by mass)

Ni	Cr	Mo	Si	B
63	19	10	7	1



rema®-Flux 1

Flux, for CoCrMo-Sold 1 and NiCr-Sold 1.

102-304-00	25 g
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Crown and bridge investment materials at a glance

	Castorit® all speed	Castorit®-super C	Trivest	DentAurum Vest
Characteristics	High expansion, individually controllable speed investment material for all alloys	Well proven, user friendly precision investment material for CoCr and NiCr alloys	High expansion, individually controllable speed investment material for non-precious metal alloys	Precision speed investment material for all precious metal alloys
Indications	For all indications and alloys (except titanium)	For all indications for non-precious metal alloys (except titanium)	For all indications of non-precious metal alloys (except titanium) in particular with a higher expansion requirement.	For all indications of precious metal alloys
Inlays, Onlays (Precious alloys)	++	–	–	++
Crowns, bridges	+++	+++	+++	+++
Implant supportes supra structures	+++	++	+++	+++
Attachment work	+++	++	+++	++
Summary relevant characteristics				
Pre-heating	Full speed process Consistent heating Heating with holding time	Consistent heating Heating with holding time	Consistent heating Heating with holding time	Full speed process Consistent heating Heating with holding time
Mixing consistency	+++	++	++	+++
Working time	+++	++	++	++
Deflasking behaviour	++	+++	+++	+++
Surface smoothness	+++	+++	+++	+++
Ordering informations				
Powder	REF 105-740-00 6 kg (100 x 60 g) REF 105-741-00 6 kg (40 x 150 g) REF 105-742-80 20 kg (8 x 2.5 kg)	REF 106-720-00 6 kg (100 x 60 g) REF 106-721-00 6 kg (40 x 150 g)	REF 106-731-00 6 kg (40 x 150 g)	REF 106-650-00 6 kg (40 x 150 g)
Mixing liquid	REF 105-745-00 1 l (Standard)	REF 105-704-00 1 l (Standard) REF 105-502-00 1 l (Power Liquid)	REF 105-706-00 1 l (Standard) REF 105-502-00 1 l (Power Liquid)	REF 106-651-00 1 l (Standard)

+++ = very good suitability, ++ = good suitability, + limited suitability, – = not suitable

DentAurum Vest, Investment material for precious alloys

- Excellent fit: Extraordinary consistency in accuracy of fit due to a distinct reduction in mixing and temperature sensitivity.
- Especially smooth cast surfaces
- Easy investment
- Finely grained investment particles
- Optimal flow characteristics
- Sufficient working time
- Speed heating method possible
- Reduction in dust production
- User-friendly handling

106-650-00	6 kg (40 x 150 g)
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DentAurum Vest, mixing liquid

Between 1000 ml and 1400 ml of mixing liquid is required for 6 kg of investment material, according to the area of use.

Caution:

Mixing liquid is sensitive to frost. Please order prior to frost season.

106-651-00	1 l
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C+B investment materials



105-740-00	6 kg (100 x 60 g)
105-741-00	6 kg (40 x 150 g)
105-742-80	20 kg (8 x 2.5 kg)

CASTORIT® all speed, powder

C+B speed investment for all precious and non-precious alloys.

- Mould can be placed into the furnace at final temperature (950°C/1742°F) for speed preheating or preheated in stages overnight
- For the entire range of applications and all types of alloy from **precious metals** to high expansion **non-precious alloys**
- The high overall expansion provides precision of fit, even for telescopic restorations
- Handles very easily – Long working times and very creamy consistency after mixing
- Castings with extremely smooth surfaces ensure uniform quality and exact reproduction of the pattern.



105-745-00	1 l
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CASTORIT® all speed, mixing liquid

Depending on the alloy between 800 and 1200 ml mixing liquid are sufficient for 6 kg Castorit® all speed.

Caution:

Mixing liquid is sensitive to frost. Please order prior to frost season.



106-720-00	6 kg (100 x 60 g)
106-721-00	6 kg (40 x 150 g)

Castorit®-super C, powder

Precision investment material for CoCr, NiCr crown and bridge alloys. A phosphate based investment specifically developed for alloys with a high coefficient of thermal expansion for perfectly fitting, smooth castings.

Advantages:

- Carbon free
- Creamy mix
- Silky smooth castings
- Perfect fit
- Controllable expansion
- Easy deflasking
- Thermal stability
- Working time of 4 minutes
- Supplied in moisture-proof pouches

Application:

Non-precious alloys.

Castorit®-super C, mixing liquid

1400 ml mixing liquid are sufficient for 6 kg Castorit®-super C.

Caution:

Mixing liquid is sensitive to frost. Please order prior to frost season.



106-704-00	1 l
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Trinvest, powder

crown and bridge investment material for non-precious alloys

106-731-00	6 kg (40 x 150 g)
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Advantages:

- The expansion can be adjusted – for the entire range of non-precious alloys
- Very high overall expansion, specifically indicated for telescopic restorations
- Low viscosity, easy flowing
- Long working time
- Highly thermo-stable
- Easy deflasking
- Very easily blasted

Trinvest, mixing liquid

Ca. 1200 ml mixing liquid are sufficient for 6 kg Trinvest.

106-706-00	1 l
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Caution:

Mixing liquid is sensitive to frost. Please order prior to frost season.

Power Liquid, Mixing liquid concentrate

for rema® Exakt, rema® Exakt F, rema® dynamic, rema® dynamic S, Castorit®-super C and Trinvest.

105-502-00	1 l
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- Reduces transport costs
- Freedom over degree of expansion

Ca. 800 ml Power Liquid are sufficient for 6 kg Castorit®-super C.

Caution:

Mixing liquid is sensitive to frost. Please order prior to frost season.

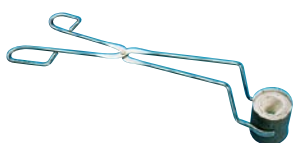
Accessories



1.0 x 50 mm	127-250-00	25 m
2.0 x 50 mm	127-251-00	15 m

Kera-Vlies®

- Asbestos free liner for metal casting rings in the crown and bridge technique.
- Kera-Vlies® is now manufactured with enhanced biological quality. It even complies with the most stringent regulations of industrial medical guidelines.
- Free expansion through fleece-like material.
- Kera-Vlies® is fire proof and does not release any toxic fumes.
- Easier deflasking after casting.



127-410-00	1 piece
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Casting ring tongs

Angled arms provide easy grasping of the casting ring.
Stainless. Length 36 cm.



Size 1	106-800-00	1 piece
Size 3	106-801-00	1 piece
Size 6	106-802-00	1 piece

Casting rings

Stainless steel.
Heat resistant. Stable.
Available in 3 diameters:
Size 1 Ø 30 mm 60 g
Size 3 Ø 48 mm 150/180 g
Size 6 Ø 65 mm 300 g
Height: 55 mm



Size 1	106-820-00	1 piece
Size 3	106-821-00	1 piece
Size 6	106-822-00	1 piece

Sprue formers

Highly durable flexible rubber.
With metal reinforced base plate.
3 sizes to match casting rings.
Sizes 1, 3, 6.



106-825-00	1 piece
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Base D1 – Casting ring base

- Universal casting ring base for all casting ring sizes from size 3 up available in C & B.
 - Ring may also be fixed outside of the casting ring centre, individual adaptation of the wax pattern.
 - Rubber base ensures a safe seal.
- The casting ring is not supplied with the base.



164-450-00	6 kg
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Rapidur® synthetic plaster

White, superhard, smooth. Class IV

Application:

CoCr casting, precious metal work, acrylics, ceramic, orthodontics. Acc. to DIN EN 26873.

Setting expansion	max. 0.15%
Compression resistance after 24 h	min 35 MPa
Working time	min. 3 Min.
Setting time	max. 30 Min.



400 ml	164-651-00	1 piece
600 ml	164-650-00	1 piece

Mixing bowls

PVC bowls for gypsum and for investment material. Easy cleaning.

Dowel pins

Brass. Machined and ground. Smooth clean surfaces. Conical root portion, bevelled on one side.

Type A

Standard model. Head Ø 1.9 mm.

Type B + C

Head Ø 2.0 mm.

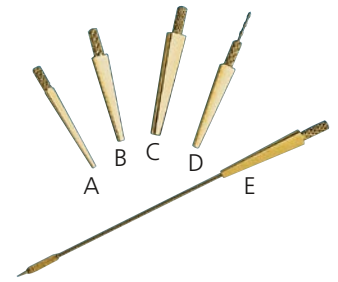
Type D

medium size (similar to shape B) with plunger for direct fixation – without seating device – in the impression due to the special graduation of the plunger.

Type E

with spike for indirect fixation in the impression. The spike prevents rotation or loosening of the pins.

A	319-401-00	100 pieces
B	319-402-00	100 pieces
C	319-403-00	100 pieces
D	319-405-00	1000 pieces
E	319-406-00	100 pieces



Saw

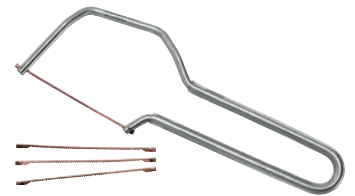
For orthodontic appliances and die models, small saw with replaceable blades.

A = Saw and 3 replacement blades

B = Replacement blades length 70 mm

C = Replacement blades length 80 mm for saw REF 180-700-00 (previous model).

A	180-702-00	1 piece
B	180-703-00	5 pieces
C	180-701-00	5 pieces



Dentaflux®

Universal flux.

681-100-00	50 g
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Lubrofilm®

Double function

- **Silicone surface tension reducing agent**
Allows bubble free pouring of investment into silicone mould.
- **Wax surface tension reducing agent**
Reduces surface tension on wax and facilitates investing.

Available in a practical pump dispenser or re-fill bottle.

112-050-00	100 ml
112-051-00	1 l



Lubrofilm® plus

For use in the same areas as Lubrofilm®

- Very quick to evaporate: this prevents damage of investment material or plaster.
- Even better and more homogenous surface covering.
- Pleasant smell

Available in a practical pump dispenser or re-fill bottle.

112-053-00	100 ml
112-054-00	1 l



Waxes



green	120-201-00	50 g
blue	120-208-00	50 g
red	120-207-00	50 g
beige	120-202-00	50 g
grey	120-203-00	50 g



Dentin A1	120-204-00	50 g
Dentin B3	120-205-00	50 g
transparent	120-206-00	50 g



120-211-00	50 g
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Carving wax

StarWax CB

- Ideal carving properties – short melting range, can be applied optimally in spots or larger surfaces
- Highly resilient – no risk of fracturing
- Fatigue-resistant during working

CB green traditional coloring/
purely organic

CB blue traditional coloring/
purely organic

CB red traditional coloring/
purely organic

CB beige tooth-colored aesthetic wax/
purely organic

CB grey highly opaque with an extremely low percentage of inorganic components

StarWax aesthetic wax

- Reproduction of tooth shades

StarWax M milling wax

- Outstanding milling and carving properties
- Highly elastic, reproduces shapes exactly
- Smooth surfaces – will not smear
- purely organic

Color: blue



120-212-00	50 g
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StarWax C cervical wax

A further development of the well known Gründerler wax.

- Unattainable precision of fit – this elastic material is guaranteed to reproduce the cervical margin precisely. An ideal base wax for all applications.

- purely organic

Color: red



120-213-50	100 g
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StarWax D dipping wax

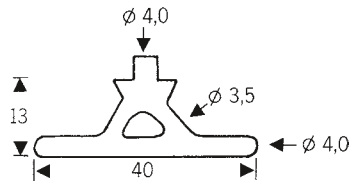
- Highly elastic – ideal for fabricating uniformly thick wax copings
- Granulate for comfortable dosing.
- purely organic
- Working temp. ca. 90 °C / 194 °F

Color: orange

Preformed sprue bars

Stabilizes the wax construction and avoids deformation of bridges. Easy mounting to the sprue former due to the shape of the preformed connector. Controlled contraction of alloys due to proper diameters of wax. Slightly curved.

111-315-00	100 pieces
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Special casting wax

According to Gründler, soft and stress free, for waxing onto metal surfaces.

Color: red

123-800-00	50 g
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Wax patterns

For sprues, retentions, etc.
After application, rigid and stress free. Smooth surfaces. Easy waxing due to fast solidification.
Additional wax profiles: see cast partial denture technique p. 110

Clinic coil

Color standard quality:
violet

Color soft quality:
blue

Standard quality	Soft quality	●	Quantity
	111-720-00	2.0 mm	250 g
111-425-00	111-825-00	2.5 mm	250 g
111-430-00	111-830-00	3.0 mm	250 g
111-435-00	111-835-00	3.5 mm	250 g
111-440-00	111-840-00	4.0 mm	250 g
111-450-00	111-850-00	5.0 mm	250 g



Bars in plastic box

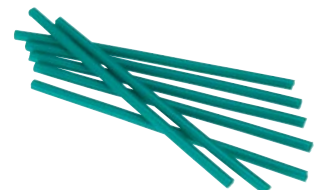
Standard quality	Color	●	Quantity
111-106-00	blue	0.6 mm	12 g
111-108-00	blue	0.8 mm	25 g
111-109-00	green	0.9 mm	25 g
111-110-00	green	1.0 mm	25 g
111-112-00	green	1.2 mm	37 g
111-115-00	green	1.5 mm	50 g
111-120-00	blue	2.0 mm	50 g



Wax sticks extra hard

Color: turquoise

Extra hard	●	Quantity
111-630-00	3.0 mm	250 g
111-640-00	4.0 mm	250 g
111-650-00	5.0 mm	250 g



Waxes / accessories



122-300-00	60 g
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Sticky wax

Tin.



112-000-00	50 g
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Die Lube

Die separating agent, liquid

To be applied on dies made of plaster, metal or plastic. Separates wax from metal, ceramics, plastic and plaster.

Guarantees easy removal of wax.

Ideal, oil-free milling liquid for smoothing milled metal surfaces. Will not react while duplicating with silicone.

new, improved quality



112-010-00	20 ml
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OVL

Surface Sealing Lacquer

Application:

during the wax-up stage for cast metal dentures and crown and bridgework

To seal clasps etc. when fabricating metal dentures in wax

To smooth wax surfaces

To strengthen contacts



120-130-00	1 Set
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Folident

Mini adapter for die copings

Heat foils over a burner until they are transparent. Through the soft foils the die is pressed into the elastic clay in the mold pot. The foils are adapted and after cooling pulled off and cut down.

Folident set:

Molding pot/foil holder

Foil each 100 pieces 0.1 and 0.6 mm

0.6 mm	120-131-00	100 pieces
0.1 mm	120-132-00	200 pieces

Folident

replacement foils



111-901-00	10 pieces
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Conical pins

Preform in Wax

Accessory which allows for optimum results when laser welding gold to CoCr alloys.

Tip:

For easier laser welding, the stub is affixed to the secondary crown. The connector to the base is bracing the stub when the frame is then waxed up later.

This allows later to conveniently weld the crown to the frame by means of the laser.

Plastic attachments

- Low cost
- Universal application for all alloys and titanium

Advantages:

- Females easy to replace
- Friction can be adjusted through differing females
- Easy to use
- High wearing comfort

dent attach V

Extracoronary omega attachment, medium friction. The elastic females are easily replaced (3 friction levels).

Set:

6 attachments, 1 inserting pin

240-110-00	1 set
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dent attach V 45°

Extracoronary omega attachment. Male tapered at 45° angle. Separate parallel holder.

Set:

6 attachments, 1 inserting pin, 1 parallel holder

240-111-00	1 set
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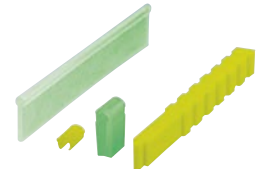
dent attach H

Burnout plastic bar with elastic riders – replaceable.

Set:

2 plastic bars, 6 riders, 6 spacers, 1 inserting pin.

240-112-00	1 set
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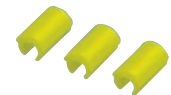
dent attach females

Replaceable elastic females with medium friction level.

Set:

6 yellow females.

240-113-00	1 set
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dent attach females

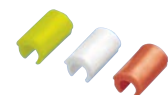
Replaceable elastic females with 3 friction levels.

yellow = medium friction,
white = low friction,
orange = high friction

Set:

2 yellow, 2 white, 2 orange females.

240-114-00	1 set
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dent attach males

Male with parallel holder.

Set:

6 blue males.

240-115-00	1 set
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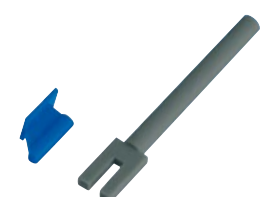
dent attach males

Male tapered at 45° angle.

Sortiment:

6 blue males, 1 parallel holder, grey.

240-116-00	1 set
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The *tiologic*® Concept

The logical evolution

Benefit from past experience – a new advantage

DENTAURUM IMPLANTS has more than a decade of experience in implantology and the main headquarters Dentaureum, more than 120 years of experience in prosthetics. It is this solid foundation on which the development of *tiologic*® Implant systems was based. In an intense collaboration with clinical experts, practices and Laboratories, well established concepts were combined with new innovative solutions, whilst future potential requirements were taken into consideration.

Easy to Use

The S - M - L Concept

5 Implant diameters 5 Lengths 3 abutments

Integrated Platform-Focussing – realistically adaptable

The S - M - L concept includes aspects such as integrated Platform-Focussing and opens up new perspectives for individual, simple and economical constructions at a high degree of reliability. The user is presented with a choice of 5 Implant diameters, 5 Implant lengths and 3 prosthetic abutments.

For further information see

www.tiologic.de

or simply request the Info-DVD or the catalogue free of charge.

info@dentaureum-implants.de

Fax +49 72 31/803-295

Tel. +49 72 31/803-0



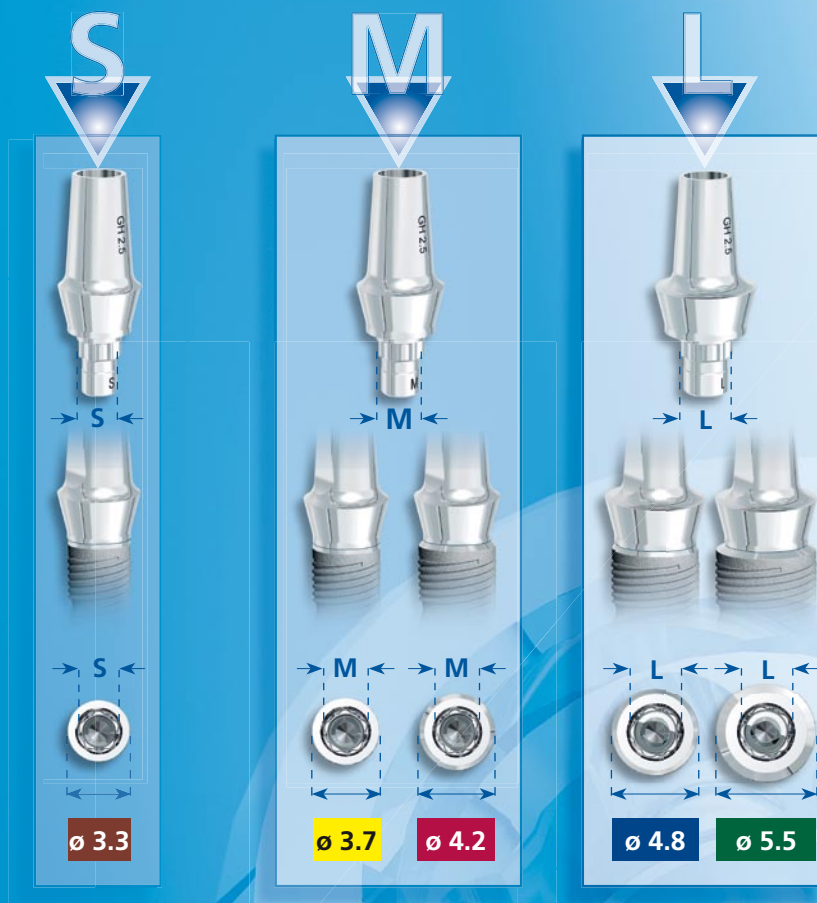
tiologic®

5 Implant diameters

3 Abutments



Optimal selection of implant diameter and lengths enable the restoration to be crafted exactly as the indication requires. The 3 abutments include components made from zirconium oxide, titanium, precious metal as well as bars, ball and socket retainer, locator and magnets.



3 Abutments
for
5 Implant
diameters

remanium[®] Cast partial denture alloys



biocompatible, resistant to corrosion, for universal use

Melt reflection

Finding the correct point of casting

Melt reflection prevents overheating of the alloy and aids in producing smooth and clean castings.

Excellent laser welding

Joining has never been that easy

GM 900 is the first carbon free CoCrMoTa cast partial denture alloy.

GM 380+ and GM800+ have an extremely low carbon content.

Cast partial denture alloy

The latest technology

Cast partial denture alloys from Dentaaurum are the result of many years of in-house research and development in a world-wide cooperation with dentists and technicians. The range of products are constantly updated and adapted to the latest technology and medical progress for the patient's well-being. Rising customer demands are also taken into consideration.



Strict quality controls

Reassurance for both user and patient

All Dentaaurum crown and bridge alloys undergo strict quality controls and carry the CE standard.



Highest biocompatibility

High resistance to corrosion and free of medically harmful substances

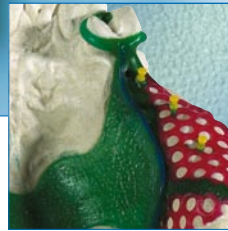
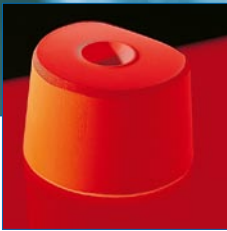
Resistance to corrosion and biocompatibility depends upon the chemical composition. remanium® CoCr alloys are highly resistant to corrosion.

All remanium® cast partial denture alloys are free of nickel, beryllium and iron.

We are happy to send certificates regarding biocompatibility on request.



Cast partial denture investments



fast, flexible and perfect fit

The application

Flexibility in preheating

Dentaurum investment materials cover the whole spectrum of cast partial denture technique. They can be used for the conventional preheating overnight, however the ring can be placed into the furnace at final temperature.

The perfect fit

An absolute must

Whatever Dentaurum investment material you choose, you always achieve excellent results.

rema[®] dynamic S

for all preheating methods

rema[®] Exakt F

the "finer" improved version of rema[®] Exakt

rema[®] Exakt

The classic investment material for cast partial denture



Dentaurum's competence

This expertise is your advantage

Dentaurum is the world's largest manufacturer of investment materials. The fully automatic processing unit guarantees consistent quality – batch for batch. A staggering 30.000.000 model cast pieces of work from the well proven rema® Exakt investment material, speaks for itself.



Strict final checks

An accurate fit is reliably reproduced

Prior to filling into the proportioned aluminium foil bags, the quality of the investment material is examined according to dental technical standards after DIN and ISO.



Research and development department

The realization of customer demands

The constituents for all investment materials are put together within the development department. Through close cooperation with dental laboratories all over the world it is possible for us to create products which are geared for the individual needs of our customers. You may rely upon the fact: A Dentaurum product has been extensively tested and is available for use by the customer as an established product.



Duplicating material for every application



Flexible, accurate, economical

Duplicating silicone

The highest precision

The quick working time and high elasticity guarantee a high level of working comfort.

Duplicating Gel

Highly economical

The high standard of quality allows the material to be frequently re-used and secondary models in investment material or plaster to be accurate.

Speed of Use

Addition cross linked pure Silicone

Shortest setting time and quick elastic recovery cut down the working time considerably.



Strict Quality Controls

High quality Agar Agar base material

The high expectations of duplicate materials can also be achieved with modern duplicating gels. Longevity is an additional advantage.



Precision




It is the quality of the duplicate model which is significant

Not only investment models but also plaster models are reproduced exactly. That is of great importance not only for the surface smoothness but also for the accurate fit of work pieces on the duplicate model.



Cast partial denture

remanium® Cast partial denture alloys at a glance

	remanium® GM 380+	remanium® GM 800+	remanium® GM 900
Characteristics	Spring hard alloy with improved laser weldability 	Extra spring hard universal alloy with improved laser weldability 	Extra spring hard universal alloy, optimum laserweldability, patented 
Applications	Universally applicable in all areas of cast partial denture and combination technique for high strength standard structures	Universally applicable in all areas of cast partial denture and combination technique for rigid constructions with enhanced strength rigidity	Universally applicable in all areas of cast partial denture and combination technique for rigid constructions with enhanced strength rigidity
Advantages	Advanced development of the classic cast partial denture alloy remanium® GM 380 with improved features: 1. Casting point 2. Laser weldability 3. Easy polishing	State-of-the-art cast partial denture alloy with coordinated high mechanical properties. Advanced development of the proven remanium® GM 800 with improved mechanical properties which allow for more flexible clasps and even easier polishing	Carbon-free cast partial denture alloy with excellent laser weldability; harmonically-coordinated high mechanical properties
Composition (Percentage by mass)	Co Cr Mo 64.6 29 4.5	Co Cr Mo Si 63.3 30 5 1	Co Cr Mo Si C Ta 62 30 5.5 1.2 – 1.2
Other < 1%	Si, Mn, N, C	Mn, N, C	N

Summary relevant characteristics

Elasticity	spring hard	extra spring hard	extra spring hard
Activation capacity	+++	+++	+++
Melting	+++	+++	+++
Melt reflection	yes	yes	yes
Finishing and polishing	+++	+++	+++
Laser welding	+++	+++	+++
Soldering with CoCr-Solder bars (REF 102-306-00)	++	++	++

Mechanical characteristics

Yield strength $R_{p0.2}$ (MPa)	640	720	700
Tensile strength R_m (MPa)	900	960	910
Elongation A_5 (%)	6.5	6	5.0
Hardness (HV 10)	360	370	340
Modulus of elasticity E (GPa)	220	230	210
Solidus temp. (°C/°F)	1300 / 2372	1240 / 2264	1360 / 2480
Liquidus temp. (°C/°F)	1370 / 2498	1410 / 2570	1410 / 2570
Density (g/cm³)	8.2	8.2	8.2

Ordering informations

Availability	1000 g REF 102-001-10	1000 g REF 102-200-10	1000 g REF 102-250-00
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Safety through certified quality

CE 0483

Optimum biocompatibility: laboratory tests confirm outstanding resistance to corrosion. Biocompatibility demonstrated by cytotoxicity tests carried out by independent testing institutes. We will be pleased to send you our certificates on request. All cast partial denture alloys are free of beryllium, iron, nickel, gallium and copper.

+++ = excellent ++ = very good + = good

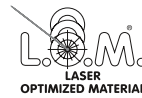
remanium® GM 380+

The result of advanced development:
Spring hard alloy with improved laser
weldability

- For the entire range of CoCr removable restorations – high strength, standard frameworks
- An improvement of the classic remanium® GM380 CoCr alloy, but with state-of-the-art properties such as melt reflection, reduced surface hardness and optimized laser welding properties due to the reduced carbon content
- The high elongation at break value promotes activation.

102-001-10	1000 g
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CE 0483



Technical Data (DIN EN ISO 6871-1)

Yield strength $R_{p0.2}$	640 MPa
Tensile strength R_m	900 MPa
Hardness HV 10	360
Elongation A_5	6,5 %
Modulus of elasticity E	220 GPa
Density	8.2 g/cm ³
Solidus temperature	1300/2372 °C/°F
Liquidus temperature	1370/2498 °C/°F
Weight per casting ingot	approx. 6 g

Composition (percentage by mass)

Co	Cr	Mo
64.6	29	4.5

Additional elements less than 1%: Si, Mn, N, C

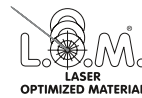
remanium® GM 800+

Super Cast, extra spring hard

- Fracture resistant due to excellent physical properties.
- The right moment for casting is given when the melt has a mirrorlike shine. No overheating of melt results in smooth and clean castings.
- High modulus of elasticity allows delicate but still rigid constructions.
- Reduced surface hardness facilitates trimming.
- Highly brilliant surface after electrolytic polishing.
- Highly recommended for Laser welding

102-200-10	1000 g
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CE 0483



Technical Data (DIN EN ISO 6871-1)

Yield strength $R_{p0.2}$	720 MPa
Tensile strength R_m	960 MPa
Hardness HV 10	370
Elongation A_5	6 %
Modulus of elasticity E	230 GPa
Density	8.2 g/cm ³
Solidus temperature	1240/2264 °C/°F
Liquidus temperature	1410/2570 °C/°F
Weight per casting ingot	approx.6 g

Composition (percentage by mass)

Co	Cr	Mo	Si
63.3	30.0	5.0	1

Additional elements less than 1%: Mn, C, N

Cast partial denture

Cast partial denture alloys



102-250-00	1000 g
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CE 0483



remanium® GM 900

Worldwide, the first carbon free CoCrMoTa cast partial denture alloy

extra spring hard

- The alloy with excellent laser welding properties due to missing carbon
- For the entire range of CoCr and fixed/removable restorations – rigid, standard frameworks
- CoCr alloy with compatible, high mechanical values
- Melt reflection for better casting point control
- Easily trimmed and polished due to the reduced surface hardness.

Composition (percentage by mass)

Co	Cr	Mo	Si	Ta
62	30	5.5	1.2	1.2

Additional elements less than 1%: N

Technical Data (DIN EN ISO 6871-1)

Yield strength $R_{p0.2}$	700 MPa
Tensile strength R_m	910 MPa
Hardness HV 10	340
Elongation A_5	5.0 %
Modulus of elasticity E	210 GPa
Density	8.2 g/cm ³
Solidus temperature	1360/2480 °C/°F
Liquidus temperature	1410/2570 °C/°F
Weight per casting ingot	approx. 6 g



528-210-00	1 piece
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CE 0483

CoCr welding wire

Perfect dimensions for use when welding all CoCr alloys. Delustered surface for enhanced energy absorption.

Ø 0.35 mm

2 m coil



528-200-50	1 piece
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CE 0483

Composition (percentage by mass)

Co	Cr	Mo
65	28	5.5

Additional elements less than 1%: Si, Mn

Ø 0.5 mm

2 m coil

Solder in rod form, ready fluxed

White gold solder

ct. 18.6
Working temp.
870 °C–910 °C/1598 °F–1670 °F
Weight: approx. 1.8 g
Ø 1–1.1 mm

380-600-50	1 piece
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CE 0483

Composition (percentage by mass)

Au	Ni	Zn
77	16	6

Additional: Flux



Universal solder

Cadmium free.
AgZnCu based.
Working temp. 700°C/1292°F
Weight: approx. 1.2 g
Ø 1–1.1 mm

380-604-50	1 piece
380-604-60	10 pieces

CE 0483

Composition (percentage by mass)

Ag	Zn	Cu
59	24	16

Additional: Flux



Soldering rods for chrome-cobalt

Invisible after soldering.
No discoloration.
Including flux.
Liquidus point: 1100°C/2012°F.

142-100-50	6 rods
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CE 0483

Composition (percentage by mass)

Co	Cr	Ni	Si	W
52	19	17	8	4



CoCrMo-Sold 1

Pure CoCr solder nickel free.
No discoloration. Corrosion resistant.
Liquidus temp.: 1162°C/2124°F
Solidus temp.: 1110°C/2030°F

102-306-00	ca. 3 g
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CE 0483

Composition (percentage by mass)

Co	Cr	Mo	Si	B
69.8	19	5	5	1.2



rema®-Flux 1

Flux for CoCrMo-Sold 1.

102-304-00	25 g
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Cast partial denture

Solder



380-704-50	10 g
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CE 0483

Composition (percentage by mass)

Ag	Zn	Cu
59	25	16

Universal Silver Solder Coils

Cadmium free.

Working temperature: 700°C/1292°F.



681-100-00	50 g
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Dentaflux®

Universal flux for all alloys.



380-070-00	100 g
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Heat screen

Protects metals, plastics and ceramic parts against heat damage during soldering.

Asbestos-free, ceramic based.

Can be re-used.

Cast partial denture

rema® cast partial denture investment materials at a glance

	rema® dynamic S Universal, quick model casting investment material	rema® Exakt F Fine and exact model casting investment material	rema® Exakt Classical, robust, model casting investment material
Characteristics	<ul style="list-style-type: none"> complete flexibility in the preheating stage: <ul style="list-style-type: none"> + Speed heating + reduced quick heating from 600 °C / 1112 °F + conventional preheating suitable for combination prosthetics: Impressive accuracy even with complicated structures universally suitable in all duplicating procedures: Compatible with duplicating materials silicone and gel excellent accuracy: knife edge stability and smoothness 	<ul style="list-style-type: none"> improved development of the classic rema® Exakt: The well proven recipe was optimized with a finer grain size very easy, pleasant working: <ul style="list-style-type: none"> + amenable consistency + adequate working time + reduced dust very high accuracy: perfectly fitting castings in all areas especially light divestment: very soft devestment and light sandblasting 	<ul style="list-style-type: none"> very uncomplicated operation: Good results even in extreme laboratory conditions reproducible precision: Maintains the same high accuracy from casting to casting especially recommended for gel duplications: quick setting increases the quality with gel duplications Universal procedure: especially economical due to addition of water
Indication	Metal partial dentures Combination techniques	Metal partial dentures Combination techniques	Metal partial dentures
Preheating	<ul style="list-style-type: none"> Speed Quick heating overnight heating 	<ul style="list-style-type: none"> Constant preheating overnight heating 	<ul style="list-style-type: none"> Constant preheating overnight heating
Duplication with Gel	+++	+++	+++
Duplication with Silicone	+++	+++	+
Mixing consistency	++	+++	+
Model hardness	+++	++	++
Devestment	++	+++	++
Working time	++	+++	+++
Precious metal model castings	+	+	+++

Ordering informations

Powder	REF 105-600-50 20 kg (112x180 g)		REF 105-021-00 20 kg (100x200 g)
	REF 105-610-50 20 kg (40x500 g)	REF 105-020-50 20 kg (50x400 g)	REF 105-020-00 20 kg (50x400 g)
	REF 105-610-85 20 kg (8x2.5 kg)	REF 105-008-50 8 kg (20x400 g)	REF 105-020-80 20 kg (8x2.5 kg)
	REF 105-609-50 8 kg (16x500 g)		REF 105-008-00 8 kg (20x400 g)
Mixing liquid	REF 105-620-50 1 l (Standard)	REF 105-501-00 1 l (Standard)	REF 105-501-00 1 l (Standard)
	REF 105-623-50 1 l (Speed)	REF 105-502-00 1 l (Power Liquid)	REF 105-502-00 1 l (Power Liquid)
	REF 105-502-00 1 l (Power Liquid)		

+++ = excellent ++ = very good + = good

Cast partial denture investment materials

rema® dynamic S, powder

Universal, quick model casting investment material

- complete flexibility in the preheating stage:
 - + Speed heating
 - + reduced quick heating from 600°C/1112°F
 - + conventional preheating
- suitable for combination prosthetics: Impressive accuracy even with complicated structures
- universally suitable in all duplicating procedures: Compatible with duplicating materials silicone and gel
- excellent accuracy: knife edge stability and smoothness

105-600-50	20 kg (112 x 180 g)
105-610-50	20 kg (40 x 500 g)
105-610-85	20 kg (8 x 2.5 kg)
105-609-50	8 kg (16 x 500 g)



rema® dynamic S, mixing liquid

Required quantity 3 litres per 20 kg box.

Caution:

Mixing liquid is sensitive to frost. Please order prior to frost season.

105-620-50	1 l
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rema® dynamic S, mixing liquid Speed

To be used for speed operation.
Required quantity 3 litres per 20 kg box.

Caution:

Mixing liquid is sensitive to frost. Please order prior to frost season.

105-623-50	1 l
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Special tooth-arch concentrate

for the one-piece-casting technique.

Caution:

Mixing liquid is sensitive to frost. Please order prior to frost season.

105-621-00	250 ml
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Cast partial denture

Cast partial denture investment materials



105-020-50	20 kg (50 x 400 g)
105-008-50	8 kg (20 x 400 g)

rema® Exakt F, powder

Fine and exact model casting investment material

- improved development of the classic rema® Exakt:
The well proven recipe was optimized with a finer grain size
- very easy, pleasant working:
+ amenable consistency
+ adequate working time
+ reduced dust
- very high accuracy:
perfectly fitting castings in all areas
- especially light devestment:
very soft devestment and light sand-blasting



105-021-00	20 kg (100 x 200 g)
105-008-00	8 kg (20 x 400 g)
105-020-00	20 kg (50 x 400 g)
105-020-80	20 kg (8 x 2.5 kg)

rema® Exakt, powder

Classical, robust, model casting investment material

- very uncomplicated operation:
Good results even in extreme laboratory conditions
- reproducible precision:
Maintains the same high accuracy from casting to casting
- especially recommended for gel duplications:
quick setting increases the quality with gel duplications
- Universal procedure:
especially economical due to addition of water



105-501-00	1 l
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rema® Exakt, rema® Exakt F mixing liquid

Required quantity 3 litres per 20 kg box.

Caution:

Mixing liquid is sensitive to frost. Please order prior to frost season.



105-995-00	1 piece
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Measuring beaker

Cast partial denture investment materials

Power Liquid, mixing liquid concentrate

for rema® Exakt, rema® Exakt F, rema® dynamic S, Castorit®-super C und Trinvest.

- Reduces transport costs
 - freedom over degree of expansion
- Required quantity 2 litres per 20 kg box.

Caution:

Mixing liquid is sensitive to frost. Please order prior to frost season.

105-502-00	1 l
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RK-DUR Fine investment

- By means of metal oxide in the RK-DUR fine investment, the liquid melt is stimulated to increase the grain formation in the solidification phase. Improves the mechanical properties of CoCrMo alloys.
- Easier working due to smooth casting surfaces. Easy deflasking
- RK-DUR improves proof stress, tensile strength and elongation at break.

104-400-50	150 g
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RK 3 Fine investment

For coating wax and plastic patterns when using phosphate-based investments, e. g. rema® Exakt. Not suitable for ethyl silicate investments. Ready-to-use.

- No vacuum investing needed for muffle ring
- Durable, hard ceramic coating
- Produces smooth casting surfaces
- Easy to agitate
- Easy application
- Easy devesting
- Long shelf life

104-501-50	150 g
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Cast partial denture

Reversible Agar duplicating material at a glance

	Dublitolp®	Duplikat	Dubliform	Dubliplast®	DubliGel
Material characteristics	Opaque, sharp contrast, top quality material with silicone similar characteristics	Outstanding transparent material, well proven top quality	Well proven, inexpensive, quality duplicating gel	Universal quality duplicating gel for plaster and investment materials	Specialized duplicating gel for secondary models in plaster
	Excellent for microwave melting, high discoloration resistance of plaster models, strengthened with nanoparticles	Precision gel with well matched characteristics	Especially good value for money	Highest discoloration resistance of plaster models	Very economical duplicating gel for plaster
Areas of Use					
Non-precious metal casting technique	X	X	X	X	—
Combination work	X	X	—	—	—
Acrylic pouring technique	X	X	X	X	—
Suitable for second plaster models	—	—	—	X	X
Suitable for model casting investment material	X	X	X	X	—
Technical Data					
Color	opaque, light blue	transparent, yellow	transparent, orange	transparent, violet	pink
Typical repeated melting cycles (at optimal lab conditions)	25	20	15	15	12
Product characteristics					
Elasticity and tearing resistance	extremely high	very high	high	high	high
Accuracy of reproduced details	very high	very high	high	high	high
Accuracy of fit	extremely high also with attachments	very high, also with attachments	high	high	high
Suitable for micro waving	X	X	X* <small>* please observe extra instructions!</small>	X	X
Ordering information					
Verpackungseinheit	Container (5 kg)	Container (6 kg)	Container (6 kg)	Container (5 kg)	Container (5 kg)
REF	108-610-00	108-600-00	108-500-00	165-500-00	165-501-00
Package size	Packaged portions Micro (4 x 350 g)	Concentrate (3.0 l)	Concentrate (2.5 l)	Concentrate (2.5 l)	
REF	108-615-00	108-605-00	108-550-00	165-550-00	

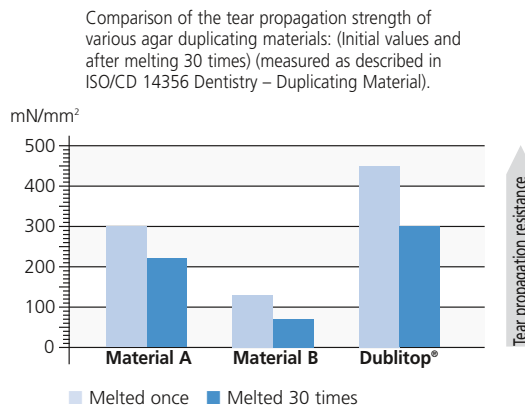
Dublito[®] Duplicating gel

New dimensions for CoCr cast partial denture techniques and fixed/removable restorations

- Crisp surface details
Optimal contrasts due to the new light blue, opaque color
- Outstanding tear-strength
High edge strength when removing the master model
- Excellent precision
Excellent reproduction
- Long shelf-life, saves money
- Will not discolor stone models
Presentable models at all times
- Biodegradable
No problems with waste disposal
- Smooth surfaces
- Optimal working characteristics
- Suitable for microwave units
- Saves time and cost
- can be re-melted up to 25 times

Color: Opaque light blue

108-610-00	5 kg
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Dublito[®] micro

Innovative small portions for use in microwaves

- Can be used very quickly
- Easy handling
- Minimal technical requirements
- Cost saving,
can be re-melted up to 25 times

Specifically for laboratories which only require small amounts of duplicating material.

Dublito[®] micro is easily melted in a microwave and cools to working temperature in a very short period. Dublito[®] micro is impressive as it reproduces details with absolute dimensional stability, has a long shelf-life and is a natural, biodegradable product.

108-615-00	4 x 350 g
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Dublito[®] micro Set

The electric mixer cools the molten duplicating material to working temperature in only 10 minutes.

A signal sounds once the working temperature has been attained.

Mixes the duplicating material homogeneously.

Contains:

- 4 x 350 g Dublito[®] micro,
- 1 signal thermometer,
- 1 mixer,
- 1 cooling beaker,
- 1 mixing lid

108-620-00	1 Set
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Duplicating material



108-500-00

6 kg

Dubliform

Duplicating material for CoCr cast partial denture. Constant volume, precise moulding, transparent, elastic, stable and easy flowing.

- can be melted up to 15 times

Melting point 93 °C/199 °F

Pouring temp. 50 °C/122 °F

Gelation time 30–45 min

Color: orange

Only for phosphate-based investment materials!



108-600-00

6 kg

Duplikat

Precision duplicating gel for combination work and cast partial dentures. Suitable for phosphate-based and ethyl silicate investments.

- No shrinkage at metal primary parts.
- Outstanding fit
- Smooth metal surfaces
- Long shelf life
- can be melted up to 20 times

Melting point 93 °C/199 °F

Pouring temp. 50 °C/122 °F

Gelation time 30–45 min

Color: yellow



165-501-00

5 kg

DubliGel

Specialized duplicating material for secondary model in plaster.

- Extremely clean duplications with all types of plaster.
- great value for money
- can be melted up to 12 times

Melting point 93 °C/199 °F

Pouring temp. 50 °C/122 °F

Gelation time 30–45 min

Color: pink



165-500-00

5 kg

Dubliplast®

Special duplicating material for plaster (Rapidur®), and plaster containing investments. Also useful for CoCr casting investments.

- Tear resistant due to high elasticity
- Easy removal of models from duplicating material
- can be melted up to 15 times

Melting point 93 °C/199 °F

Pouring temp. 50 °C/122 °F

Gelation time 30–45 min

Color: purple

Dubliform Liquid Concentrate

Duplicating concentrate for the cast partial denture technique. Stable in volume. Precise duplication. Transparent. Low viscosity.

- Easy processing by only mixing with water
- Ready to use after first heat up
- can be melted up to 15 times

Ready-to-use volume 5 litres (5.4 kg)

Mixing ratio: 1 l gel : 1 l water
Melting point 93 °C/199 °F
Pouring temp. 50 °C/122 °F
Gelation time 30–45 min

108-550-00	2.5 l (2.9 kg)
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Duplikat Liquid Concentrate

Duplicating concentrate for high precision casting. Extremely stable in volume. Low viscosity. Suitable for phosphate based and ethyl silicate investments.

- No shrinkage at metal primary parts.
- Easy processing by only mixing with water
- Ready to use after first heat up
- can be melted up to 20 times

Ready-to-use volume 4.5 litres (5.2 kg)

Mixing ratio: 2 l gel : 1 l water
Melting point 93 °C/199 °F
Pouring temp. 50 °C/122 °F
Gelation time 30–45 min

108-605-00	3.0 l (3.7 kg)
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Dubliplast® Liquid Concentrate

Duplicating concentrate for plaster and plaster-containing investments. Also for phosphate based investments.

- Easy processing by only mixing with water
- Ready to use after first heat up
- can be melted up to 15 times

Ready-to-use volume 5 litres (5.2 kg)

Mixing ratio: 1 l gel : 1 l water
Melting point 93 °C/199 °F
Pouring temp. 50 °C/122 °F
Gelation time 30–45 min

165-550-00	2.5 l (2.7 kg)
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Duplicating accessories



165-700-00	1 piece
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Duplicating flask

For quick, controllable setting of duplicating material.

Corrosion resistant metal flask. For water and alcohol based investments.

Support for individual positioning of sprue former.

Two bases for large and small models. Sprue former with metal pin. Fixation is made by means of holding device.



127-312-00	1 piece
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Sprue former

A plastic sprue former with sliding tube for insertion into the duplicating material. Free-standing.



127-311-00	1 piece
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Sprue former

Plastic sprue former with metal tip and holding device for Dentaurum flask REF 165-700-00.



008-030-00	1 piece
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Model forceps

Model forceps (stainless steel) for parallel removal of the master cast from the investment.

rema®-Sil silicone

Additionsvernetztes pure silicone for a high standard of quality.

- Pure silicone without fillers
 - Large quantity 950 ml and 1 kg, long storage time
- Low level of hardness
 - High degree of accuracy due to free investment expansion
- Extremely thin flowing consistency
 - bubble free impression of detailed structures
- Very quick setting time and fast elastic recovery.
 - Great time saver.

Technical data	Component A (Catalyst)	Component B
Mixing ratio	1	: 1
Viscosity at 23°C/73 °F mPAS	1000	1000
Density kg/m ³	1060	1070
Processing times	4–5 Minuten	
Release from mould	12 Minuten	
Shore hardness	9–10	
Elastic recovery after 30 s	99,9 %	

Component A	108-700-00	1 kg
Component B	108-701-00	1 kg
Component A	108-710-00	5 kg
Component B	108-711-00	5 kg



ecosil silicone

Additionsvernetztes two component silicone with excellent value for money

- Good color contrast
 - Green color prevents mixing errors
- Extremely thin flowing consistency
 - Highly accurate duplicate reproduction
- Long working time
 - can be used to re-cast models many times
- Medium Shore hardness (19)
 - Use also with ring free duplicating systems
- Very quick elastic recovery
 - Cuts down model casting time

Technical data	Component A (Catalyst)	Component B
Mixing ratio	1	: 1
Viscosity at 23°C/73 °F mPAS	2000	2000
Density kg/m ³	1300	1300
Processing times	6–8 Minuten	
Release from mould	30 Minuten	
Shore hardness	18–20	
Elastic recovery after 30 s	99,9 %	

Component A	108-703-00	1 kg
Component B	108-704-00	1 kg
Component A	108-705-00	5 kg
Component B	108-706-00	5 kg



Tap

for 5 kg canister.

108-716-00	1 piece
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Cast partial denture

Duplicating accessories



127-315-00	1 Oberteil, klein
127-316-00	1 Oberteil, mittel
127-317-00	1 Oberteil, groß
127-309-00	1 Boden

Siliform – Duplicating flasks

Transparent plastic flasks, for silicone and reversible duplicating materials.

With the 3 flasks of different heights, various model sizes can be duplicated economically.

Internal height of flask top:

small	35 mm
medium	43 mm
large	51 mm

Base: matching all tops

Up to 30% savings.

Siliform-Set

3 top sections (small, medium, large)
3 bases; one size fits all tops

127-318-00	1 Set
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Neo-Star flask

Duplicating flasks for silicone – multifunctional for the cast partial denture technique.

Inner diameter of flaskbase A 78 mm.

Suitable for all model sizes.

Function:

- Saves duplicating silicone
- Plaster models are articulated using magnets
- The investment model may be replaced accurately into the articulator
- Investment system

Neo-Star – Single parts

Duplicating flasks for silicone – multifunctional for the cast partial denture technique



165-810-00	1 piece
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A	165-850-00	Flask bottom section
B	165-851-00	Base form for gypsum
C	165-858-00	Base form for investment material
D	165-852-00	Covering plate
E	165-855-00	Spacer ring 0.7 mm
E	165-856-00	Spacer ring 0.8 mm
E	165-857-00	Spacer ring 0.9 mm
F	165-853-00	Collar
G	165-854-00	Top
H	165-839-00	Magnet
I	165-860-00	Tightening slide

Gumex N

- Soft, easy to adapt
- No discoloration
- Easy removal from model after duplication
- Multiple reuse
- Good adaptation onto the model

Application:

Filling of undercuts on plaster model prior to duplication with silicone, polyether or agar.

Color: yellow



168-015-50	650 g
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Lubrofilm®

Double function

- **Silicone surface tension reducing agent**
Allows bubble free pouring of investment into silicone mould.
- **Wax surface tension reducing agent**
Reduces surface tension on wax and facilitates investing.

Available in a practical pump dispenser or re-fill bottle.

112-050-00	100 ml
112-051-00	1 l



Lubrofilm® plus

For use in the same areas as Lubrofilm®

- Very quick to evaporate: this prevents damage of investment material or plaster.
- Even better and more homogenous surface covering.
- Pleasant smell

Available in a practical pump dispenser or re-fill bottle.

112-053-00	100 ml
112-054-00	1 l



Septisol

Double function separating agent

- **Plaster against silicone**
Spray on plaster models prior to silicone duplication.
- **Plaster against plaster**
Spray on plaster model base before mounting in articulator.

Available in a practical pump dispenser or re-fill bottle.

New dispensing: without alcohol.

108-720-50	100 ml
108-721-50	1 l



Remadur

Solvent free cold model hardener for investment models

- Solvent free.
- Model hardness greatly increased.
- Environmentally friendly.
- Low viscosity.

167-301-00	1 l
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Cold model hardener

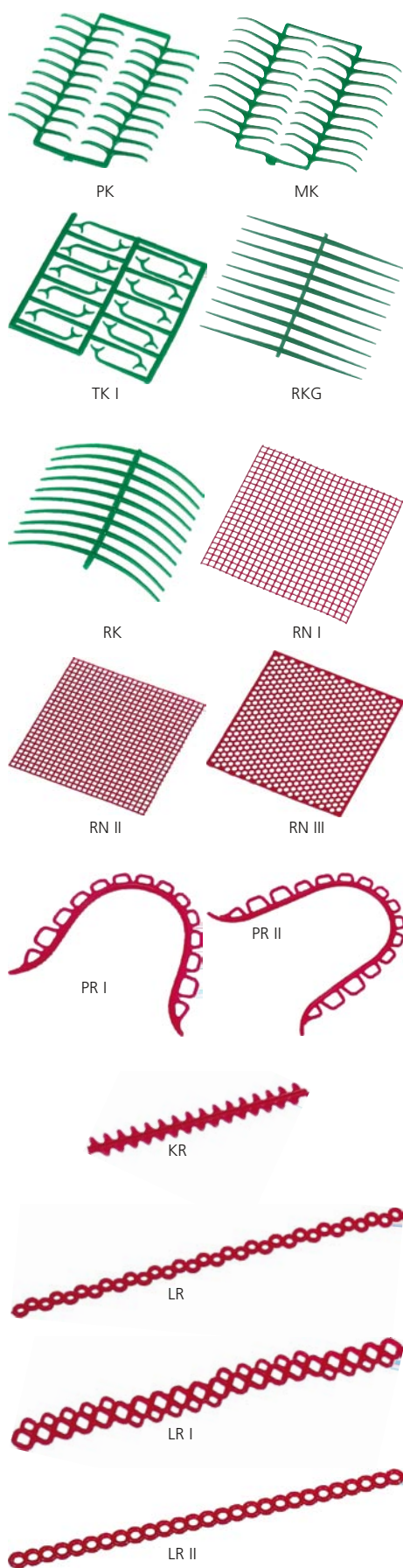
Very fluid easily absorbed cold model hardener for investment models. Hardener should not be heated.

We recommend our Dubliform containers as working tub.

167-215-00	2.3 kg
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Waxes



Extended product line

The well proven quality remains. In order for you to continue achieving the same excellent wax pattern results no matter what the temperature in your laboratory, we have developed a new softer wax quality in our most popular waxes.

A distinctly softer quality

Easier to adapt with excellent adhesive characteristics. Creating wax patterns with these new waxes is quick and easy. They are easy to adapt and adhere well to the model.

Wax templates

- Produced from only the best raw materials: No fillers included. The wax patterns burn out without leaving a residue.
- The variety of preformed shapes makes waxing the metal framework easier and saves time when designing important, fine details.
- Preformed clasps and grid retention. A wide spectrum of a variety of shapes.

		Standard quality	Soft quality	Quantity
Premolar clasps	PK	110-001-00	110-001-50	200 pieces
Molar clasps	MK	110-002-00	110-002-50	200 pieces
Bonyhard clasps	TK I	110-003-00	110-003-50	200 pieces
Ring clasps, straight	RKG	110-013-00	110-013-50	200 pieces
Ring clasps, curved	RK	110-005-00	110-005-50	200 pieces
Grids, coarse	RN I	110-101-00	110-101-50	20 pieces
Grids, fine	RN II	110-102-00	110-102-50	20 pieces
Grids, round	RN III	110-103-00	110-103-50	20 pieces
Ridge retention	KR	110-006-00	110-006-50	80 pieces
Loop retention, small	PR I	110-011-00	110-011-50	24 pieces
Loop retention, large	PR II	110-012-00	110-012-50	24 pieces
Perforated retention for lower staggered,length 130 mm,width 7 mm	LR	111-216-00	111-216-50	25 pieces
Perforated retention for lower straight,length 110 mm,width 9 mm	LR I	111-217-00	111-217-50	25 pieces
Perforated retention for lower straight,length 125 mm,width 6 mm	LR II	111-218-00	111-218-50	25 pieces



Wax patterns

For sprues, retentions, etc.

After application, rigid and stress free. Smooth surfaces. Easy waxing due to fast solidification.

Clinic coil

Color standard quality:
violet

Color soft quality:
blue

Standard quality	Soft quality	●	Quantity
	111-720-00	2.0 mm	250 g
111-425-00	111-825-00	2.5 mm	250 g
111-430-00	111-830-00	3.0 mm	250 g
111-435-00	111-835-00	3.5 mm	250 g
111-440-00	111-840-00	4.0 mm	250 g
111-450-00	111-850-00	5.0 mm	250 g



Bars in plastic box

Standard quality	Color	●	Quantity
111-106-00	blue	0.6 mm	12 g
111-108-00	blue	0.8 mm	25 g
111-109-00	green	0.9 mm	25 g
111-110-00	green	1.0 mm	25 g
111-112-00	green	1.2 mm	37 g
111-115-00	green	1.5 mm	50 g
111-120-00	blue	2.0 mm	50 g



Bars in plastic box

Color: green

Standard quality	Soft quality	◐	Quantity
111-301-00	111-301-50	1.5 x 0.75 mm	25 g
111-303-00	111-303-50	1.8 x 0.9 mm	50 g
111-304-00	111-304-50	2.0 x 1.0 mm	50 g
111-306-00	111-306-50	3.5 x 1.75 mm	65 g



Lingual bars in plastic box

Color: green

Standard quality	Soft quality	◑	Quantity
111-314-00	111-314-50	4.0 x 2.0 mm	65 g
111-308-00	111-308-50	4.0 x 1.7 mm	65 g
111-313-00	111-313-50	4.3 x 2.3 mm	65 g



Sprue strip in plastic box

Color: green

Standard quality		▬	Quantity
111-311-00		8.0 x 1.8 mm	65 g



Finishing lines in plastic box

Color: blue

Standard quality		◔	Quantity
111-312-00		2.0 x 1.0 mm	25 g



Cast partial denture

Waxes



Standard quality		Ø	Quantity
120-023-00		0.3 mm	32 sheets
120-024-00		0.4 mm	32 sheets
120-025-00		0.5 mm	32 sheets
120-026-00		0.65 mm	32 sheets
120-027-00		0.75 mm	32 sheets

120-104-00		0.4 mm	15 sheets
120-105-00		0.5 mm	15 sheets
120-106-00		0.6 mm	15 sheets
120-107-00		0.7 mm	15 sheets

Preparation and Casting wax

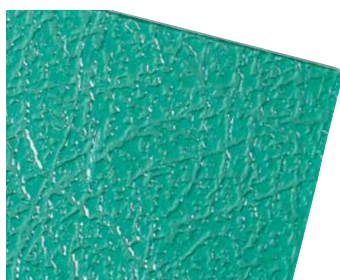
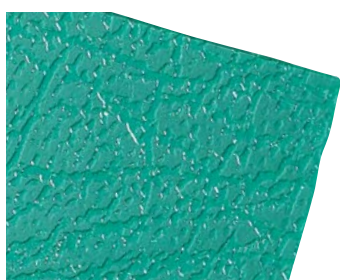
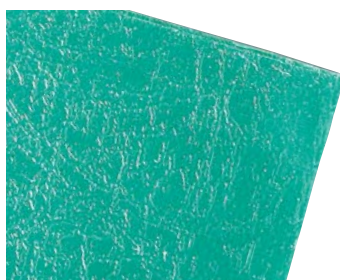
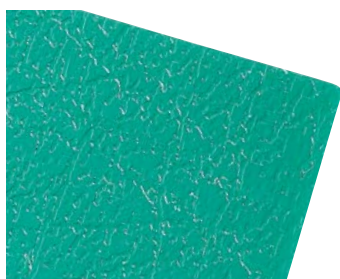
Adhesive, soft, high adaptability, transparent.
Available in 10 x 10 cm sheets

Relining wax

For relining saddles, soft, transparent, high adaptability.

Available in 7 x 15 cm sheets

Color: red



Standard quality	Soft quality	Surface	Thickness
114-420-00		plain	0.20 mm
114-425-00		plain	0.25 mm
114-430-00	114-430-50	plain	0.30 mm
114-435-00	114-435-50	plain	0.35 mm
114-440-00	114-440-50	plain	0.40 mm
114-450-00	114-450-50	plain	0.50 mm
114-460-00	114-460-50	plain	0.60 mm
114-470-00	114-470-50	plain	0.70 mm
114-480-00	114-480-50	plain	0.80 mm
114-500-00	114-500-50	plain	1.00 mm
117-035-00	117-035-50	fine veined	0.35 mm
117-040-00	117-040-50	fine veined	0.40 mm
117-045-00	117-045-50	fine veined	0.45 mm
117-050-00	117-050-50	fine veined	0.50 mm
117-060-00	117-060-50	fine veined	0.60 mm
117-130-00	117-130-50	medium veined	0.30 mm
117-135-00	117-135-50	medium veined	0.35 mm
117-140-00	117-140-50	medium veined	0.40 mm
117-145-00	117-145-50	medium veined	0.45 mm
117-150-00	117-150-50	medium veined	0.50 mm
117-160-00	117-160-50	medium veined	0.60 mm
117-235-00	117-235-50	coarse veined	0.35 mm
117-240-00	117-240-50	coarse veined	0.40 mm
117-245-00	117-245-50	coarse veined	0.45 mm
117-250-00	117-250-50	coarse veined	0.50 mm
117-260-00	117-260-50	coarse veined	0.60 mm
118-040-00	118-040-50	coarse grained	0.40 mm
118-045-00	118-045-50	coarse grained	0.45 mm
118-050-00	118-050-50	coarse grained	0.50 mm
118-060-00	118-060-50	coarse grained	0.60 mm

Wax sheets with a new quality

- The stronger vein and rippling design gives the upper denture amore natural surface structure.
- A very adaptable quality.
Dentaurum wax sheets are easy to adapt and have excellent adhesive characteristics.
- The wax sheets are easy to use and adhere well to the model.

Available:

- Green transparent sheets
- 7 x 15 cm
- 15 sheets per box

Joining wax

Special wax for the rapid build-up of clean joints between the base with clasps, and retainers.

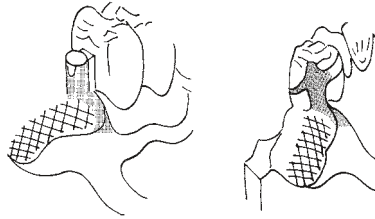
No tendency to smear due to similar hardness as the wax pattern.

Very good color contrast to patterns.

Melting point: 74 °C/165 °F

Color: violet

110-301-00	50 g
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Blocking out wax

Specifically for cast partial dentures.

User friendly handling:

- Enhanced sculpting properties
- High opacity
- Outstanding temperature-resistance to hot duplicating gel
- Models are easier to clean

Color: pink

Setting point: 60–65 °C/140–149 °F

110-310-00	50 g
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Wax marking pencil

White.

Model marking.

Marking of wires.

043-700-00	6 pieces
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Wax-Fix

Adhesive for wax- and plastic patterns.

With Wax-Fix no damage to investment material. Adheres 100% to the model.

Application:

Surface of investment materials wet, dry or hardened. Plastic surfaces.

Moving of adapted parts is possible.

110-210-00	50 ml
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new, improved quality



OVL

Surface Sealing Lacquer

Application:

during the wax-up stage for cast metal dentures and crown and bridgework

To seal clasps etc. when fabricating metal dentures in wax

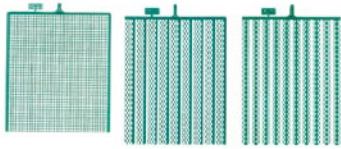
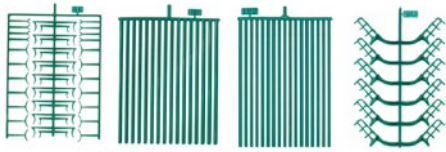
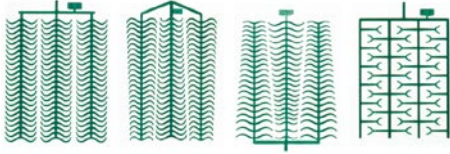
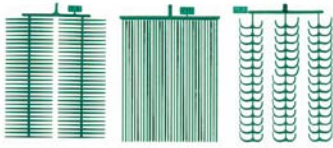
To smooth wax surfaces

To strengthen contacts

112-010-00	20 ml
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Cast partial denture



Plastic patterns

Adherent, easy application. Translucent.
Form stable. No residue burn out plastic.

Single arm clasp		G 1	125-250-50	10 sheets
Ring clasp		G 2	125-251-50	10 sheets
Continuous clasp, small		R 1 S	125-252-50	10 sheets
Double arm clasp with rest, medium		GR 2	125-256-50	10 sheets
Molar clasp		G 3	125-257-50	10 sheets
Double arm clasps small – large		G 4	125-258-50	10 sheets
Double arm clasps small – large, thin		G 4 S	125-259-50	10 sheets
Bonyhard clasp		G 5	125-260-50	10 sheets
Long arm clasps		G 6	125-261-50	10 sheets
Lingual bar		1 B 1	125-264-50	10 sheets
Lingual bar, narrow		1 B 2	125-265-50	10 sheets
Lingual bar with retentions		BR 2	125-269-50	10 sheets
Mesh retentions		RT 1	125-270-50	10 sheets
Mesh retentions with finishing line, maxillary		CR 1	125-272-50	10 sheets
Mesh retentions with finishing line, mandible		CR 2	125-273-50	10 sheets
0.5 mm, fine grained		24 S	125-275-50	10 sheets
0.4 mm, fine grained		26 S	125-276-50	10 sheets
0.4 mm, coarse grained		26	125-280-50	10 sheets



Y	126-221-00	500 pieces
Y	126-222-00	500 pieces
Y	126-223-00	500 pieces
^	126-226-00	500 pieces
o	126-229-00	500 pieces
••••	126-231-00	500 pieces
I I	126-232-00	500 pieces

Plastic retentions

For direct application to waxing model.
No residue burn out.

I I = retention pins, mixed,
large and small

Adhesive for plastic patterns

125-140-00	40 g
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rema®-Form

Quick investing system of impact resistant plastic.

	H	D 1	D 2	
A	54.5	71	96	green
B	54.5	80.5	96	red
C	70	78	96	blue

D, E: Casting rings base fits all 3 sizes

F: Sprue former with pin and support for Dentaurem duplicating flask

G: Sprue former with sliding tube for insertion in the duplicating material.

A	127-306-00	Casting ring, small
B	127-307-00	Casting ring, medium
C	127-308-00	Casting ring, large
D	127-309-00	smooth base
E	127-310-00	base with cone
F	127-311-00	Sprue former with pin
G	127-312-00	Sprue former with sliding tube



Adhesive coated strips for rings

8 x 30 cm.

127-100-00	100 sheets
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Lining paper

Corrugated paper.
Continuous roll.
10 cm high.

127-010-00	25 m
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Sprues

Residue-free burn out plastic for casting from the top.

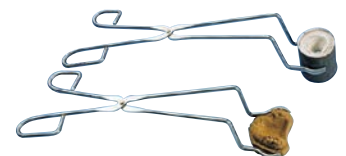
110-201-00	100 pieces
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Model and casting ring tongs

Angled jaws give more secure grip for investment and casting rings (Sizes 1/3/6).
Stainless. Length 36 cm.

127-410-00	1 piece
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Muffle tongs

For large and small casting rings. Stainless. Length 56 cm.

127-400-00	1 piece
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Cast partial denture

Accessories



164-450-00	6 kg
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Rapidur® synthetic plaster

White, superhard, smooth. Class IV

Application:

CoCr casting, precious metal work, acrylics, ceramic, orthodontics. Acc. to DIN EN 26873.

Setting expansion	max. 0.15%
Compression resistance after 24 h	min 35 MPa
Working time	min. 3 Min.
Setting time	max. 30 Min.



164-650-00	1 piece
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Mixing bowls

PVC bowls for gypsum and for investment material. Easy cleaning.

For 600 ml.



164-651-00	1 piece
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For 400 ml.



128-301-00	1 l
128-401-00	10 l

Electropolishing solution

For CoCr castings.

Produces a brilliant surface finish.

Deep acting, does not leave streaks.



Titanium

Taking the initiative in prosthetics



Titanium: Summary of the advantages

Titanium is not an alloy.

Titanium is a pure metal.

Titanium is highly corrosion resistant.

Titanium does not corrode. A protective layer known as passivity layer prevents titanium from further oxidation. This is also referred to as "chemically inert".

Titanium is biocompatible.

Titanium does not release ions into the surrounding tissues. No pathological reactions are triggered in the body.

Titanium is the most biocompatible metal.

It has proven to be very effective in human and dental medicine.

Titanium is a metal with a limited thermal conduction.

The patient can enjoy hot or cold food without painful pulling in the teeth. Gold conducts heat 15-times more, with a result that patients react more to hot and cold.

Titanium is taste neutral.

The passivated surface of titanium prevents reactions with saliva and food and drink. No metallic taste exists as with many alloys.

Titanium has a multitude of applications.

The requirement of a single metal in the mouth is achieved with titanium because of the many processing possibilities.

Titanium is light.

This considerably increases comfort for the patient. Gold is four times heavier, which becomes noticeable in a large bridge.

Titanium is highly strong, not too soft and not too hard.

Titanium is able to withstand the tremendous forces produced during chewing. Titanium is easily processed by dental laboratories.

Titanium allows laser welding.

Titanium is excellent for laser welding and soldering can be avoided.

Titanium casting metals



Ingots height	Ingots weight	REF	Content
11.8 mm	18 g	100-100-50	250 g
14.3 mm	22 g	100-101-50	500 g
14.3 mm	31 g	100-102-50	500 g
14.3 mm	36 g	100-103-50	500 g
15.8 mm	40 g	100-105-50	500 g

CE 0483



Tritan – pure titanium grade 1

Chemical purity min. 99.5% titanium.

Dentaurum provides, under the brandname Tritan, pure titanium in ingots of different sizes which can be used in the titanium casting machines. Each ingot is marked with the name Tritan, the purity grade and batch number. Thus, Dentaurum ensures that only DIN Standard Tritan titanium of proper purity grade is used for dental castings.

Grade 1 – with low oxygen content.

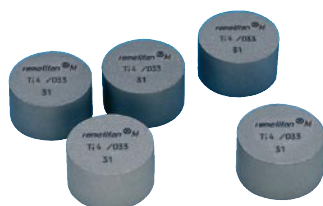
Very good castability .

Applicable for all restorations.

Partial dentures, delicate implants or suprastructures.

Technical Data

Yield strength $R_{p,0.2}$	460 MPa
Tensile strength R_m	560 MPa
Hardness HV 10	200
Modulus of elasticity E	110 GPa
Density	4.5 g/cm ³
Melting point	1668 °C
Coefficient of thermal expansion (CTE) at 25–500 °C / 77–932 °F	9.6 x 10 ⁻⁶ K ⁻¹



Ingots height	Ingots weight	REF	Content
14.3 mm	31 g	100-107-00	1000 g

CE 0483



rematitan® M – pure titanium grade 4

Chemical purity min. 99.5% titanium.

Dentaurum provides, under the brandname rematitan® M, pure titanium in ingots which can be used in the titanium casting machines. Each ingot is marked with the name rematitan® M, the purity grade and batch number. Thus, Dentaurum ensures that only DIN Standard rematitan® M titanium of proper purity grade is used for dental castings.

Grade 4 – Higher figures in elongation, proof stress and elasticity.

Partial dentures, delicate implants or suprastructures.

Technical Data

Yield strength $R_{p,0.2}$	600 MPa
Tensile strength R_m	680 MPa
Hardness HV 10	210
Modulus of elasticity E	120 GPa
Density	4.5 g/cm ³
Melting point	1668 °C

Investment materials for titanium casting

rematitan® Plus speed Universal Titanium Investment Material

- Revised version of the well proven rematitan® Plus Investment material
- Wide spectrum of use: Crown and bridgework and model cast technique. Speed and conventional preheating methods
- Reduced working times:
The speed heating method requires 2 hours total processing time
- Improved casting quality
- Operation in simple preheating furnaces possible
- Patented stabilizing procedure
- Easy to use with only one mixing liquid

107-620-00	20 kg (80 x 250 g)
107-621-00	8 kg (32 x 250 g)



rematitan® Plus speed mixing liquid

Required quantity 2.8 litres per 20 kg box

107-625-00	1 l
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Investment materials for titanium casting



107-600-00	20 kg (80 x 250 g)
107-610-00	8 kg (32 x 250 g)

rematitan® Plus – special investment for titanium castings

- By using the purest fire proof components (purity > 99%) and special additives in the rematitan® Plus investment, the reaction between forming material and molten titanium is widely minimized.
- Optimal fit is achieved by using the special mixing liquid to control the amount of thermal expansion.
- rematitan® Plus can be used for partial dentures as well as for the full range of crown and bridge techniques.

Technical data:

Working time	3–4 min
Setting time	40 min
Preheating temperature	1000 °C/1832 °F



107-601-00	1 l
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rematitan® Plus – mixing liquid for framework casting

Required quantity 3.2 litres per 20 kg box.

Caution:

Mixing liquid is sensitive to frost. Please order prior to frost season.



107-602-00	1 l
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rematitan® Plus – mixing liquid for crowns and bridges

Required quantity 3.2 litres per 20 kg box.

Caution:

Mixing liquid is sensitive to frost. Please order prior to frost season.



167-305-00	1 l
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rematitan® cold model hardener

For hardening rematitan® Plus investment models.

- Straightforward handling.
- Environment friendly product.
- For hard, sharp-edged rematitan® Plus-refractory models.
- Improved adhesion of wax profiles.

Investment materials for titanium casting

Trinell – crown and bridge speed investment material for titanium castings

- Efficient and flexible work cycle for speed operation as well as conventional preheating.
- Added reliability through significantly increased thermal stability.
- Easy to work with due to reduced oxidation.
- Universal application for every casting machine.
- Maximum quality due to optimal fit.

107-654-00	7 kg (28 x 250 g)
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Trinell mixing liquid

Required quantity 1 litre per 7 kg box.

107-653-00	1 l
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Trinell special speed liquid

Required quantity 1 litre per 7 kg box.

107-655-00	1 l
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rematitan® ultra – investment material for titanium

Special formula low reaction investment for crown + bridge castings in titanium.

- Results in shiny casting surfaces.
- Excellent fit.

107-650-00	7 kg
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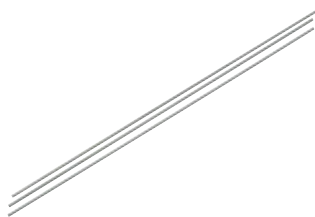
rematitan® ultra, mixing liquid

Required quantity 1 litre per 7 kg box.

107-651-00	1 l
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Accessories



Cross-section	Length	REF	Pack.
∅ 0.4 mm	2 m	528-039-50	1 coil
∅ 0.7 mm	2 m	528-040-50	1 coil
∅ 1.0 mm	100 mm	528-041-00	10 rods
∅ 1.2 mm	100 mm	528-042-00	10 rods
∅ 1.5 mm	50 mm	528-050-00	1 rod
∅ 0.25x3.0 mm	100 mm	528-044-00	10 rods
∅ 0.5x1.5 mm	100 mm	528-043-00	10 rods

CE 0483

Pure titanium wire – grade 1

according to DIN 17850 for laser welding.

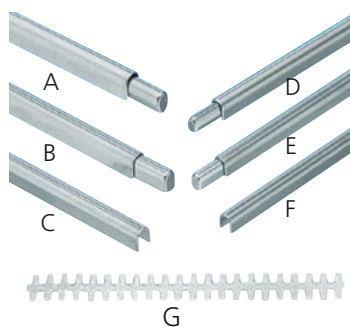
Shapes:

round ∅
rolled ∅

Length of rods: 50 mm

Length of coils: 2 m

The wire with ∅ 1.5 mm is recommended for axes of swing locks.



rematitan® bars – pure titanium grade 4

rematitan® bars have the same cross-section as precious alloy bars. All respective auxiliary parts can be used.

Each package includes

1 Bar hinge or 1 bar attachment

1 Bar sleeve

1 Retention

		Cross-section	LxWxD	REF	Content
A	Bar hinge macro		40x2.1x3.0 mm	210-010-00	1
B	Bar attachment macro		40x2.1x3.0 mm	210-011-00	1
C+G	Bar sleeve macro + retention			210-012-00	1
D	Bar hinge micro		40x1.6x2.25 mm	210-020-00	1
E	Bar attachment micro		40x1.6x2.3 mm	210-021-00	1
F+G	Bar sleeve micro + retention			210-022-00	1

CE 0483



micro 1.6 mm	210-023-00	1 piece
macro 2.1 mm	210-013-00	1 piece

Parallel holders for bars

available in 2 designs for bar hinges



090-520-00	1 piece
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Paralas

Device for parallel alignment of attachments for the laser welding technique.

Incl. 2 paralleling holders for bars:
1.6 mm and 2.1 mm

rematitan® attachments

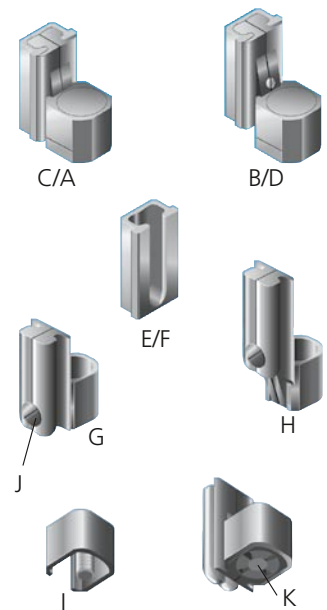
T-Attachment. Easy to activate or replace. Comes in 90° or 36°. Intracoronal retentive element which can be stress free welded into the cavity of the crown by means of a laser. Both versions also available as burnout plastic preformed females.

- Attachment made of pure titanium
- Prepared for laser welding
- With easy screw activation
- Height reduction, approx. 40%
- Easy to place
- Low male boxing
- Replaceable male
- Castable preformed plastic female
- Male boxing can be glued into partial denture
- 2 attachment shapes for upper and lower jaw.
- No alteration of metal structure when laser welding is applied.

Matrix Sizes:

Height 5.4 mm
Width 2.8 mm
Depth 1.6 mm

A	90° complete Ti Ti	240-010-00	1 piece
B	36° complete Ti Ti	240-020-00	1 piece
C	90° complete Ti-plastic female part	240-012-00	1 piece
D	36° complete Ti-plastic female part	240-022-00	1 piece
E	plastic female	240-030-00	1 piece
F	titanium female	240-031-00	1 piece
G	male 90°	240-015-00	1 piece
H	male 36°	240-025-00	1 piece
I	male part casing	240-035-00	1 piece
J	activating screw	240-036-00	1 piece
K	tapered nut	240-037-00	1 piece
L	parallel holder	240-040-00	1 piece
M	activating screwdriver	240-041-00	1 piece
N	tapered-nut key	240-042-00	1 piece



rematitan® attachment Starter Set

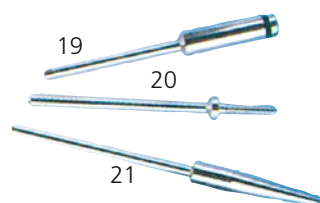
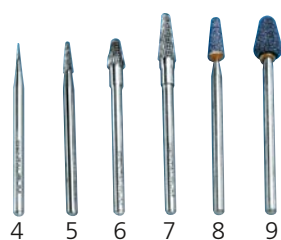
Contents:

- 1 Parallel holder
- 1 Activation screwdriver
- 1 Conical nut key

240-001-00	1 Set
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Accessories



rematitan® finishing kit

rematitan® is a soft, ductile material, which requires appropriate tools for trimming and polishing.

The kit contains all tools required to efficiently trim and polish titanium.

The enclosed instructions inform about sequence of finishing and important criterias of the tools used.

Contents finishing kit

- | | |
|--|----------|
| (1) Supercut ST cutting disc, Ø 40 mm | 1 piece |
| (2) Supercut STM cutting disc, mini, Ø 26 mm | 2 pieces |
| (3) TX cutting disc, Ø 22 mm | 5 pieces |
| (4) Ti hard-alloy cutter, mini | 1 piece |
| (5) Ti hard-alloy cutter, midi | 1 piece |
| (6) Ti hard-alloy cutter, maxi | 1 piece |
| (7) Ti hard-alloy cutter, maxi plus | 1 piece |
| (8) Aloxin grinder, blue | 1 piece |
| (9) Aloxin grinder, blue | 1 piece |
| (10) Emery cloth – 500 – | 70 cm |
| (11) Rubber polisher grey, disc | 4 pieces |
| (12) Rubber polisher red, disc | 4 pieces |
| (13) Rubber polisher red, bob | 4 pieces |
| (14) Rubber polisher, roller | 4 pieces |
| (15) Polishing brushes, Ø 20 mm, black | 4 pieces |
| (16) Polishing brushes, Ø 60 mm, Chungking bristle, 2 rows | 1 pieces |
| (17) Pointed brushes, black | 1 pieces |
| (18) Tiger brillant, polishing paste | 60 g |
| (19) Mandrels for discs | 6 pieces |
| (20) Mandrels for cylinders | 1 pieces |
| (21) Mandrels for emery paper | 1 pieces |

135-500-00	1 piece
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Refills for Set-components

(1) Supercut ST-cutting disc, Ø 40 mm, thickness 1,0 mm	130-101-00	10 pieces
(2) Supercut STM-cutting disc, mini, Ø 26 mm, thickness 1,0 mm	130-112-00	20 pieces
(3) TX-cutting disc, Ø 22 mm, thickness 0,26 mm	130-512-00	100 pieces
(4) Ti hard-alloy cutter, mini	123-610-00	5 pieces
(5) Ti hard-alloy cutter, midi	123-611-00	1 piece
(6) Ti hard-alloy cutter, maxi	123-612-00	1 piece
(7) Ti hard-alloy cutter, maxi plus	123-613-00	1 piece
(8) Aloxin grinder, blue	135-852-00	12 pieces
(9) Aloxin grinder, blue	135-853-00	12 pieces
(10) Emery cloth – 500 –	140-016-00	25 m
(11) Rubber polisher grey, disc	138-102-00	100 pieces
(12) Rubber polisher red, disc	138-601-00	100 pieces
(13) Rubber polisher red, bob	138-603-00	100 pieces
(14) Rubber polisher, roller	138-602-00	100 pieces
(15) Polishing brushes, Ø 20 mm, black	141-800-00	10 pieces
(16) Polishing brushes, Ø 60 mm, Chungking bristle, 2 rows	141-711-00	10 pieces
(17) Pointed brushes, black	141-810-00	10 pieces
(18) Tiger brillant, polishing paste	190-350-00	400 g
(19) Mandrels for discs	139-300-00	10 pieces
(20) Mandrels for cylinders	139-100-00	10 pieces
(21) Mandrels for emery paper	139-500-00	10 pieces

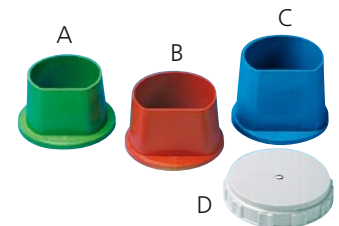
rema®-Form

Casting rings

Quick investing system of impact resistant plastic.

		H	D 1	D 2	
	A	54.5	71	96	green
	B	54.5	80.5	96	red
	C	70	78	96	blue

A	Casting ring, small	127-306-00	1 piece
B	Casting ring, medium	127-307-00	1 piece
C	Casting ring, large	127-308-00	1 piece
D	Smooth base	127-309-00	1 piece



Base

For fixing the models.
Push-on rings. Fits all rings.

Sprue former – plastic

090-027-00	5 pieces
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Ring system for rematitan®/ autocast casting machines

Base with sprue former

Solid plastic: 3 sizes (A, B, C).

Ring, flexible

Can be reused.

According to size, the rings can be pressed over the base (D, E, F).

A	Size 3	106-850-01	1 piece
B	Size 6	106-851-01	1 piece
C	Size 9	106-852-01	1 piece
D	Size 3	106-840-00	1 piece
E	Size 6	106-841-00	1 piece
F	Size 9	106-842-00	1 piece



Ring system for rematitan®-ultra/ Trinell investment material

Application: crown and bridge

A **Muffle rings** stainless steel, 2 sizes (3, 6)

B **Muffle base**, with sprue former, 3 sizes (3, 6, 9)

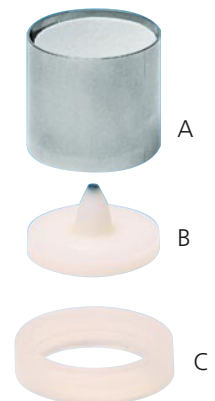
C **Fixing ring** for connecting muffle ring and base, 3 sizes (3, 6, 9)

Size 3 = Ø 48 mm

Size 6 = Ø 65 mm

Size 9 = Ø 88 mm

A	Size 3	106-801-00	1 piece
B	Size 3	106-850-01	1 piece
C	Size 3	106-845-00	1 piece
A	Size 6	106-802-00	1 piece
B	Size 6	106-851-01	1 piece
C	Size 6	106-846-00	1 piece
B	Size 9	106-852-01	1 piece
C	Size 9	106-847-00	1 piece



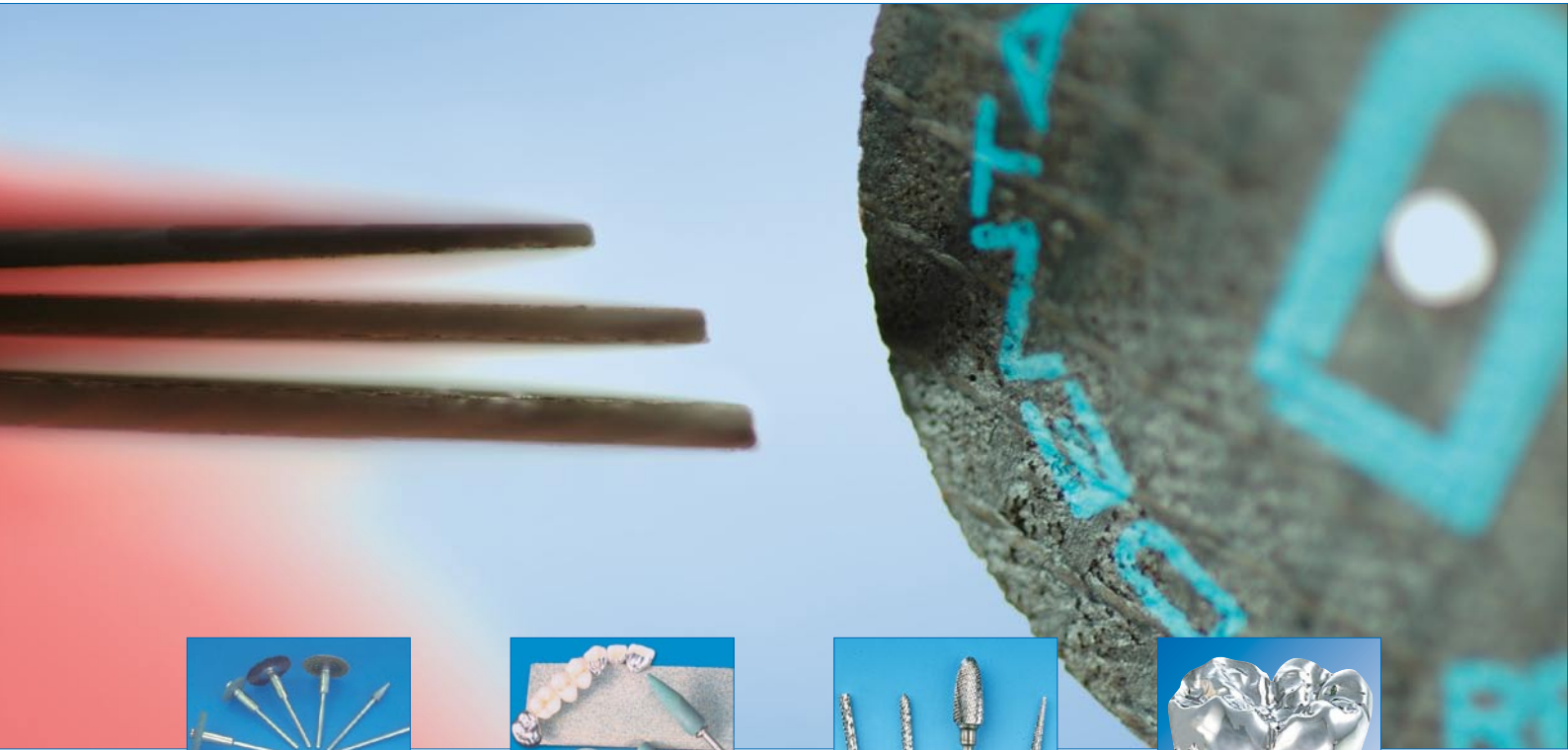
Kera-Vlies®

- Asbestos-free liner for metal casting rings in the crown and bridge technique.
- Kera-Vlies® is now manufactured with enhanced biological quality. It even complies with the most stringent regulations of industrial medical guidelines.
- Free expansion through fleece-like material.
- Kera-Vlies® is fire proof and does not release any toxic fumes.
- Easier deflasking after casting.

1.0 x 50 mm	127-250-00	25 m
2.0 x 50 mm	127-251-00	15 m



Finishing Tools



Cutting, Grinding, Polishing

Well coordinated product range

**Model cast metals, crown and
bridgework, orthodontics**

Well coordinated grinding and finishing instruments for all techniques to increase efficiency

The right cut all around

Alloys, titanium, ceramic, acrylic

Each individual material requires its own special instruments in order to be handled with care.

Optimal Material Reduction

A great variety of instruments

A great variety of diverse instruments such as ceramic bonded burs, tungsten carbide and diamond sintered burs, all contribute to economical working procedures.



Special Procedures

Titanium Grinding Set

Special materials such as titanium require specific methods of grinding and polishing.



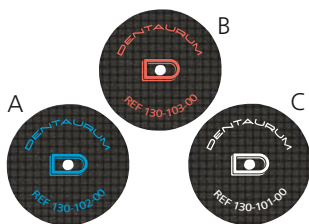
Polishing to a high lustre

Finishing and polishing made easy

Even hard and difficult materials can be easily polished with the correct instruments. Special, individual polishing pastes play an important role.



Separating and grinding discs



	Thickness x Ø	REF	Quantity
A	0.5 x 40 mm	130-102-00	10 pieces
B	0.7 x 40 mm	130-103-00	10 pieces
C	1.0 x 40 mm	130-101-00	10 pieces

Supercut ST Separating discs

Maximum cutting efficiency, minimal breakage risk, excellent strength

Nylon reinforced quality

Max. no. of revolutions 35,000 rpm.

Supercut STM Separating disc STM-Separating disc Mini

Maximum cutting efficiency, minimal breakage risk, excellent strength

Nylon reinforced quality

Max. no. of revolutions 35,000 rpm.



	Thickness x Ø	REF	Quantity
A	0.5 x 26 mm	130-111-00	20 pieces
B	1.0 x 26 mm	130-112-00	20 pieces

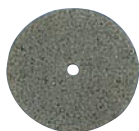
TX Separating disc

Thickness 0.26 mm, Ø 22 mm.
Very thin.

Maximum cutting efficiency, for ceramics CoCr, gold.

Max. no. of revolutions 25,000 rpm.

Color: brown



130-512-00	100 pieces
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TX-Flex Separating disc

Thickness 0.15 mm, Ø 22 mm.
Extremely thin.

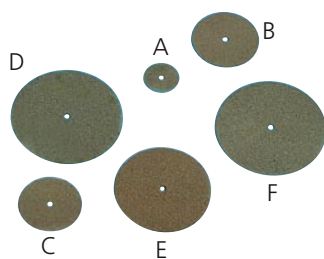
Maximum cutting efficiency, for ceramics CoCr, gold.

Max. no. of revolutions 25,000 rpm.

Color: brown



130-511-00	25 pieces
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	Thickness x Ø	REF	Quantity
A	0.55 x 13 mm	130-513-00	100 pieces
B	0.6 x 25 mm	130-824-00	100 pieces
C	0.6 x 22 mm	130-324-00	100 pieces
D	0.75 x 40 mm	130-137-00	100 pieces
E	1.6 x 34 mm	130-131-00	50 pieces
F	1.0 x 40 mm	130-138-00	100 pieces

T Separating disc

For trimming and cutting of CoCr castings.
Max. no. of revolutions 25,000 rpm.

Grinding discs

Thickness 3 mm, Ø 34 mm.
For fast grinding of large metal surfaces.
Max. no. of revolutions 25,000 rpm.

Color: brown



130-634-00	25 pieces
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Grinding wheels

Thickness 3 mm, Ø 22 mm.
Extremely rapid grinding action.
For use on all metals and ceramics.
Based on alumina, will not contaminate surfaces.

Max. no. of revolutions 15,000 rpm.

Color: white



131-322-50	100 pieces
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Grinding points

Pregrinding media

For coarse grinding of castings.
Ceramic bonded.
Shaft length 35 mm, shaft Ø 2.35 mm.
corundum soft:

Max. no. of revolutions 30,000 rpm.

Color: brown

134-000-00	12 pieces
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Grinding points

Ceramic bonded corundum grinding points.
Corrosion resistant steel shafts. High durability, exceptional grinding efficiency.
Shaft length 35 mm, shaft Ø 2.35 mm.

Note:

For high grinding speeds use soft grinding points. For lower speeds use medium points.

Brown

Hardness soft
Recomm. no. of rev. 30,000–40,000 rpm.
Max. no. of revolutions 60,000 rpm.

Grain size V₁ + V₆ coarse
V₂ – V₅ medium

Pink

Hardness medium
Recomm. no. of rev. 20,000–30,000 rpm.
Max. no. of revolutions 60,000 rpm.

Grain size: V₁ + V₂ coarse
V₃ + V₄ medium

	Color	REF	Quantity
V ₁	brown	132-201-00	100 pieces
V ₂	brown	132-202-00	100 pieces
V ₃	brown	132-203-00	100 pieces
V ₄	brown	132-204-00	100 pieces
V ₅	brown	132-205-00	100 pieces
V ₆	brown	132-206-00	100 pieces
V ₁	pink	132-801-00	100 pieces
V ₂	pink	132-802-00	100 pieces
V ₃	pink	132-803-00	100 pieces
V ₄	pink	132-804-00	100 pieces



Aloxin-Points

100% clean cutting due to pure aluminum oxide.

Prevents flaw marks.

Application:

Low precious and non precious ceramic bonding alloys.

Max. no. of revolutions 60,000 rpm.

	Color	REF	Quantity
A	violet	135-851-00	12 pieces
B	violet	135-852-00	12 pieces
C	violet	135-853-00	12 pieces
D	violet	135-855-00	12 pieces



Dressing stone

For redressing used grinding points and rubber polishers.

Color: grey

137-900-00	2 pieces
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Burs and cutters



139-500-00	10 pieces
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Mandrel

For emery cloth.

Shaft ø 2.35 mm

Max. no. of revolutions 16,000 rpm.



Grain size 120	140-015-00	25 m
Grain size 500	140-016-00	25 m

Emery cloth

Width: 15 mm



123-580-00	1 piece
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Super hard metal burs and cutters

Tungsten carbide. Precision cut.

Superb cutting action.

Stainless steel shaft ø 2.35 mm.

with cross tothing cut, coarse

Recomm. no. of rev. 20,000–25,000 rpm.

Max. no. of revolutions 50,000 rpm.

Application

Castings, Acrylics

Cylindrical - long, flat tip.



123-581-00	1 piece
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Cylindrical - long, round tip.



123-582-00	1 piece
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Cylindrical - long, pointed tip.



123-583-00	1 piece
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Round top - ø 2.1 mm.



123-584-00	1 piece
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Pear shaped, large.



123-585-00	1 piece
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Conical shape, pointed, long.

with cross tothing cut, fine

Recomm. no. of rev. 25,000–30,000 rpm.

Max. no. of revolutions 50,000 rpm.

Application

Castings, crowns and bridges

Cylindrical - long, flat tip.

123-586-00	1 piece
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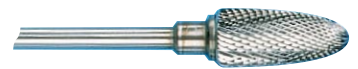
Cylindrical - long, pointed tip.

123-588-00	1 piece
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Pear shaped, large.

123-590-00	1 piece
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Conical shape, pointed, long

123-591-00	1 piece
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with cross tothing cut, super fine

Recomm. no. of rev. 35,000–40,000 rpm.

Max. no. of revolutions 50,000 rpm.

Application

Crown and bridge alloys

Cylindrical - long, round tip.

123-592-00	1 piece
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Cylindrical - long, pointed tip.

123-593-00	1 piece
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with cross tothing cut, special

Recommended no. of rev. 15,000 rpm.

Max. no. of revolutions 30,000 rpm.

Duro I

for all metals. For occlusal, interproximal or intracoronary preparations.

260-801-01	2 pieces
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Duro II

For chamfer- or shoulder preparation, as well as for the marginal forming.

260-801-02	2 pieces
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Burs and cutters



260-801-03

2 pieces



260-801-04

2 pieces

with cross tothing cut, special

Recommended no. of rev. 15,000 rpm.
Max. no. of revolutions 30,000 rpm.

Duro III

for special chamfer- and garland preparation.

Duro IV

For larger, even surfaces. Also for the preparation of oral and vestibular areas, as well as for the trimming of casting sprues.



260-801-10

3 pieces



260-801-11

3 pieces

Fissures burs

Recommended no. of rev. 10,000 rpm.
Max. no. of revolutions 20,000 rpm.

Fibo I

conical, super fine.

Fibo II

cylindrical, fine.



123-600-00

1 piece



123-601-00

1 piece



123-602-00

1 piece

Hard metal burs

Superior cutting properties.
High durability.
Shaft \varnothing 2.35 mm.

Max. no. of revolutions 100,000 rpm.
 \varnothing 0.6 mm.

\varnothing 0.8 mm.

\varnothing 2.3 mm.

Titanium hard metal burs

Shaft Ø 2.35 mm.

Max. no. of revolutions 15,000 rpm.

Apply low working pressure.

Application

Very good with titanium, all alloys.

mini

123-610-00

5 pieces



midi

123-611-00

1 piece



maxi

123-612-00

1 piece



maxi plus

123-613-00

1 piece



Super hard metal burs

with cross tothing cut, extra coarse

High precision milled. Best cutting properties

Shaft Ø 2.35 mm.

Recomm. no. of rev. 20,000–25,000 rpm.

Max. no. of revolutions 30,000 rpm.

Application

Plaster, acrylics.

Conical shape, large, round tip.

180-308-00

1 piece



Conical shape, reversed, large, round tip.

123-594-00

1 piece



Conical shape, large, round tip.

123-596-00

1 piece



Burs and cutters



123-597-00

1 piece



123-598-00

1 piece

Super hard metal burs, single cut

Tungsten carbide. Precision cut.
Superb cutting action.
Stainless steel shaft \varnothing 2.35 mm.

Recomm. no. of rev. 20,000–25,000 rpm.

Max. no. of revolutions 30,000 rpm.

Application

Acrylics, CoCr

Pear shaped, large.

Conical shape, long, round tip



180-201-00

1 piece



180-202-00

1 piece



180-304-00

1 piece



180-305-00

1 piece

Burs for acrylics, with plain longitudinal cut

Cutting properties,
Shaft \varnothing 2.35 mm

Max. no. of revolutions 15,000 rpm.

Application

Acrylics

Conical shape, pointed tip.

Conical shape, round tip.

Pear shaped, medium.

Pear shaped, large.

Diasint

Sintered diamond burs. Extremely long working life compared to electroplated diamond burs. Metallic bond prevents fragmentation. Careful selection of grain sizes results in superior cutting action.

Shaft Ø 2.35 mm.

For handpiece.

Application

Cast partial denture alloys.

Non precious ceramic bonding alloys, precious alloys, ceramics, acrylics.

Conical shape, small, round tip
Recommended no. of rev. 30,000 rpm.
Max. no. of revolutions 50,000 rpm.

137-820-00	1 piece
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Conical shape, small, pointed tip
Recommended no. of rev. 30,000 rpm.
Max. no. of revolutions 50,000 rpm.

137-821-00	1 piece
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Cylindrical shape, small, flat tip
Recommended no. of rev. 30,000 rpm.
Max. no. of revolutions 50,000 rpm.

137-822-00	1 piece
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Conical shape, small, flat tip
Recommended no. of rev. 30,000 rpm.
Max. no. of revolutions 50,000 rpm.

137-823-00	1 piece
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Conical shape, small, round tip
Recommended no. of rev. 30,000 rpm.
Max. no. of revolutions 50,000 rpm.

137-824-00	1 piece
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Cylindrical shape, small, round tip
Recommended no. of rev. 30,000 rpm.
Max. no. of revolutions 50,000 rpm.

137-825-00	1 piece
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Conical shape, large, pointed tip
Recommended no. of rev. 20,000 rpm.
Max. no. of revolutions 35,000 rpm.

137-826-00	1 piece
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Conical shape, large, round tip
Recommended no. of rev. 20,000 rpm.
Max. no. of revolutions 35,000 rpm.

137-827-00	1 piece
-------------------	---------



Cylindrical shape, large, round tip
Recommended no. of rev. 20,000 rpm.
Max. no. of revolutions 35,000 rpm.

137-828-00	1 piece
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Cone, reversed, small
Recommended no. of rev. 30,000 rpm.
Max. no. of revolutions 50,000 rpm.

137-829-00	1 piece
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Cone, reversed, medium
Recommended no. of rev. 30,000 rpm.
Max. no. of revolutions 50,000 rpm.

137-830-00	1 piece
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Cone, reversed, large
Recommended no. of rev. 20,000 rpm.
Max. no. of revolutions 35,000 rpm.

137-831-00	1 piece
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Diamond discs



137-850-00	1 piece
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Diasint Diamond disc

"Flexible" sintered diamond disc. Coated on both sides with a 2 mm wide cutting surface.

Grain 50 µm (fine)

Thickness 0.16 mm, Ø 21 mm.

With mandrel Ø 2.35 mm.

Max. no. of revolutions 10,000 rpm.

Application

Ceramics



137-855-00	1 piece
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Diasint Diamond disc

Rigid sintered diamond disc. Coated on both sides with a 2 mm wide cutting surface.

Grain 75 µm.

Thickness 0.19 mm, Ø 21 mm.

With mandrel Ø 2.35 mm.

Max. no. of revolutions 10,000 rpm.

Application

Precious and non precious alloys.



137-856-00	1 piece
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Diasint Diamond disc rigid

Fully sintered.

Grain 180 µm.

Thickness 0.4 mm, Ø 22 mm.

With mandrel Ø 2.35 mm.

Max. no. of revolutions 10,000 rpm.

Application

Non precious alloys.

Not recommended for ceramic bonding alloys.



137-807-00	1 piece
------------	---------

Diamond disc

Super flexible. Coated on both sides.

Thickness 0.15 mm, Ø 22 mm.

With mandrell Ø 2.35 mm.

Recommended no. of rev. 10,000 rpm.

Max. no. of revolutions 15,000 rpm.

Application

Ceramics, acrylics, metal



137-810-00	1 piece
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Diamond cleaning stone

or the rapid cleaning of sintered diamond burs and discs.

Diamond discs

Diasint Zr super

Lens shaped

Sintered, organically bonded, diamond grinding bur for coarse grinding and contouring of ZrO₂ framework. Does not leave rough surface or overheat.

Shaft Ø 2.35 mm.

Recommended no. of rev. 5,000 rpm.

Max. no. of revolutions 7,000 rpm.

137-841-00

1 piece



Diasint Zr medium

Wheel

Synthetically bonded diamond grinding wheel for light grinding of ZrO₂ framework. Optimal surface conditioning. Does not leave rough surface or overheat.

Shaft Ø 2.35 mm.

Recommended no. of rev. 5,000 rpm.

Max. no. of revolutions 7,000 rpm.

137-842-00

1 piece



Diasint Zr fine

Cone bur

Synthetically bonded diamond grinding wheel for light grinding of ZrO₂ framework. Optimal surface conditioning. Does not leave rough surface or overheat.

Shaft Ø 2.35 mm.

Recommended no. of rev. 5,000 rpm.

Max. no. of revolutions 7,000 rpm.

137-843-00

1 piece



Diasint Zr soft

Wheel

Diamond impregnated wheel used for grinding any ceramic. Especially suitable for working on ZrO₂ margins due to the very fine grain distribution. Does not overheat.

Shaft Ø 2.35 mm.

Recommended no. of rev. 5,000 rpm.

Max. no. of revolutions 7,000 rpm.

137-844-00

1 piece



Diasint Zr Set

Consisting of:

- 1 x Diasint Zr super REF 137-841-00
- 1 x Diasint Zr medium REF 137-842-00
- 1 x Diasint Zr fine REF 137-843-00
- 1 x Diasint Zr soft REF 137-844-00

137-840-00

1 Set



Diamond discs, mandrels



260-803-01	1 piece
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260-803-02	1 piece
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260-803-03	1 piece
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260-803-04	1 piece
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Sintered diamonds, super fine

Shaft Ø 2.35 mm

Recommended no. of rev. 10,000 rpm.

Max. no. of revolutions 20,000 rpm.

Application

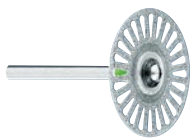
Ceramics

Sidio I

Sidio II

Sidio III

Sidio IV



260-804-02	1 piece
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260-804-01	1 piece
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Diamond disc

Shaft Ø 2.35 mm

Application

Ceramics

Highflex

Recommended no. of rev. 3,000 rpm.

Max. no. of revolutions 5,000 rpm.

Dia-Miniflex

Recommended no. of rev. 5,000 rpm.

Max. no. of revolutions 10,000 rpm.



139-300-00	10 pieces
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139-100-00	10 pieces
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139-301-00	10 pieces
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Mandrels

For discs and discoids

Shaft Ø 2.35 mm

Max. no. of revolutions 20,000 rpm.

For cylinders

Shaft Ø 2.35 mm

Max. no. of revolutions 10,000 rpm.

For separating discs

Shaft Ø 2.35 mm

Max. no. of revolutions 30,000 rpm.

Silichrom Polisher

For CoCr castings.
Faster cutting action than standard rubber polisher. Unmounted.

Advantages

Rapid trimming.
Less grinding dust.
Pressureless polishing.
Minimal heat generation.

Cylinders

138-645-00	100 pieces
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Discs

138-640-00	100 pieces
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Rubber polisher, black

Abrasive performance medium – coarse.

Application

Non precious alloys

Discs

Ø 22 mm

138-103-00	100 pieces
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Cylinders

Ø 6 mm
Length 25 mm

138-303-00	100 pieces
-------------------	------------



Rubber polisher, grey

Abrasive performance medium.

Application

Non precious alloys, titanium

Discs

Ø 22 mm

138-102-00	100 pieces
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Cylinders

Ø 6 mm
Length 25 mm

138-302-00	100 pieces
-------------------	------------



Rubber polisher, green

Abrasive performance fine.

Application

Precious and non precious alloys

Discs

Ø 22 mm

138-101-00	100 pieces
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Cylinders

Ø 6 mm
Length 25 mm

138-301-00	100 pieces
-------------------	------------



Discoids

Ø 15 mm

138-501-00	100 pieces
-------------------	------------



Polishing



138-601-00

100 pieces



138-602-00

100 pieces



138-603-00

100 pieces

Rubber polisher, red

Abrasive performance very fine.

Application

Precious alloys, titanium, ceramics

Discs

Ø 22 mm

Cylinders

Ø 6 mm

Length 25 mm

Discoids

Ø 15 mm



138-605-00

12 pieces



138-606-00

12 pieces

Mounted rubber polishing points

For demanding duties in the laboratory.

Centralized, steady design.

Shaft Ø 2.35 mm.

Black

For intensive rapid surface finishing.

Green

For silky smooth surface polish.

Silicon Polisher

mounted

For polishing acrylic on metal cast partial dentures, orthodontic appliances, soft denture relines.

Non-damaging to metal parts.

Shaft ø 2.35 mm

Recommended no. of rev. 10,000 rpm.

Max. no. of revolutions 15,000 rpm.

Cylindrical, wide, round tip.



138-620-00

10 pieces



138-623-00

10 pieces

Conical, long, round tip.

Polishing brush

Double row. Short Chungkin bristles.
For polishing machines.

Max. no. of revolutions 6,000 rpm

ø 60 mm

Application

Cast partial denture, crowns and bridges

141-711-00	10 pieces
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Polishing brush

Triple row. Short Chungkin bristles.
For polishing machines.

Max. no. of revolutions 6,000 rpm

ø 60 mm

Application

Cast partial denture, crowns and bridges

141-712-00	10 pieces
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Polishing brush

For polishing machines.

Max. no. of revolutions 2,800 rpm

ø 50 mm

Application

Cast partial denture, crowns and bridges,
Acrylic prosthetics, orthodontics

141-700-00	1 piece
141-700-10	10 pieces



Polishing brush

Combination Chungkin bristles / linen.
For polishing machines.

Max. no. of revolutions 1,500 rpm

ø 80 mm

Application

Crowns and bridges,
Acrylic prosthetics, orthodontics

141-710-00	1 piece
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Brush, stainless steel

Stainless.

For polishing machines.

Recommended no. of rev. 3,000–4,000 rpm

Max. no. of revolutions 5,000 rpm

ø 70 mm

Application

Cast partial denture, crowns and bridges

127-870-00	1 piece
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Palatal Cup Brush

Chungkin bristles.

Max. no. of revolutions 3,000 rpm

ø 30 mm

Application

orthodontics , acrylic prosthetics

141-713-10	1 piece
141-713-00	10 pieces



Polishing



181-200-00	1 piece
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Cloth polishing brush

For polishing machines.
Max. no. of revolutions 5,000 rpm
ø 100 mm

Application

Cast partial denture, crowns and bridges,
Acrylic prosthetics, orthodontics



181-201-00	1 piece
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Chamois Leather Polishing Brush

For high shine polish. For polishing machines.
Max. no. of revolutions 1,500 rpm
ø 90 mm

Application

Cast partial denture, crowns and bridges,
Acrylic prosthetics, orthodontics



127-922-00	1 piece
127-922-10	10 pieces

Brush, stainless steel

Stainless. For handpiece.
Recommended no. of rev. 3,000–4,000 rpm
Max. no. of revolutions 5,000 rpm
ø 21 mm

Application

Cast partial denture, crowns and bridges



141-800-00	10 pieces
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Brushes for polishing

For handpiece.
Recommended no. of rev. 3,000–4,000 rpm
Max. no. of revolutions 5,000 rpm
ø 21 mm

Application

Cast partial denture, crowns and bridges



181-100-01	6 pieces
------------	----------

Cloth polishing brushes

With mandrel for handpiece.
Recommended no. of rev. 1,500–4,000 rpm
Max. no. of revolutions 5,000 rpm
ø 20 mm
Shaft ø 2.35 mm

Application

Cast partial denture, crowns and bridges,
Acrylic prosthetics, orthodontics



141-810-00	10 pieces
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Pointed brushes, black

For polishing areas difficult to access e. g.
fissures, secondary telescopes etc.
Max. no. of revolutions 10,000 rpm
Shaft: Ø 2.35 mm

Tiger brillant polishing paste

Quick and high shine polishing paste for super shiny metal surfaces.

Application

CoCr, NiCr, Titanium, precious alloys

190-350-00	400 g
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Tiger Starshine Universal finishing paste

The ideal paste for final finishing of all dental metals and alloys.

190-301-00	50 ml
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Polishing and grinding paste, white

For CoCr castings. Produces a mirrorlike finish on metal surfaces.

4 bars

190-300-00	1000 g
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Finishing paste, yellow

For high luster on CoCr castings and precious metals.

4 bars.

141-300-00	1000 g
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Precious metal pregrinding paste

Very effective grinding action.

4 bars approx. 250 g each.

141-100-00	1000 g
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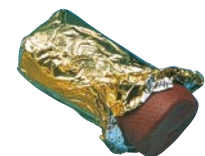
Finishing paste, red

For precious metals.

Produces a brilliant high finish.

4 bars approx. 250 g each.

141-500-00	1000 g
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Polishing, accessories



137-861-00

1 piece

Diarem

Diamond polishing set

For producing a mirrorlike finish on metal surfaces.

Contents

5 g diamond polishing paste (3 micron),
1 polishing brush (goat hair, Ø 20 mm),
1 wool buff (Ø 20 mm),
1 mounted felt cone, pointed,
1 rubber polishing wheel



190-100-00

80 g

“Edelweiss” Acrylic dry polishing paste



190-200-00

1.000 g

“Edelweiss” Acrylic polishing liquid



089-430-00

1 piece

Magnetic holder

Instruments firmly held by a permanent magnet.

Magnetic holder without burs.



089-431-00

1 piece

Bur stand

Highly transparent plastic.
For 12 burs or grinding points.
Shaft Ø 2.35 mm.

Bur stand without burs.



260-300-02

1 piece

Crown Master Forceps

rematitan® finishing kit

rematitan® is a soft, ductile material, which requires appropriate tools for trimming and polishing.

The kit contains all tools required to efficiently trim and polish titanium.

The enclosed instructions inform about sequence of finishing and important criterias of the tools used.

Contents finishing kit

- | | |
|--|----------|
| (1) Supercut ST cutting disc, Ø 40 mm | 1 piece |
| (2) Supercut STM cutting disc, mini, Ø 26 mm | 2 pieces |
| (3) TX cutting disc, Ø 22 mm | 5 pieces |
| (4) Ti hard-alloy cutter, mini | 1 piece |
| (5) Ti hard-alloy cutter, midi | 1 piece |
| (6) Ti hard-alloy cutter, maxi | 1 piece |
| (7) Ti hard-alloy cutter, maxi plus | 1 piece |
| (8) Aloxin grinder, blue | 1 piece |
| (9) Aloxin grinder, blue | 1 piece |
| (10) Emery cloth – 500 – | 70 cm |
| (11) Rubber polisher grey, disc | 4 pieces |
| (12) Rubber polisher red, disc | 4 pieces |
| (13) Rubber polisher red, bob | 4 pieces |
| (14) Rubber polisher, roller | 4 pieces |
| (15) Polishing brushes, Ø 20 mm, black | 4 pieces |
| (16) Polishing brushes, Ø 60 mm, Chungking bristle, 2 rows | 1 pieces |
| (17) Pointed brushes, black | 1 pieces |
| (18) Tiger brillant, polishing paste | 60 g |
| (19) Mandrels for discs | 6 pieces |
| (20) Mandrels for cylinders | 1 pieces |
| (21) Mandrels for emery paper | 1 pieces |

135-500-00	1 piece
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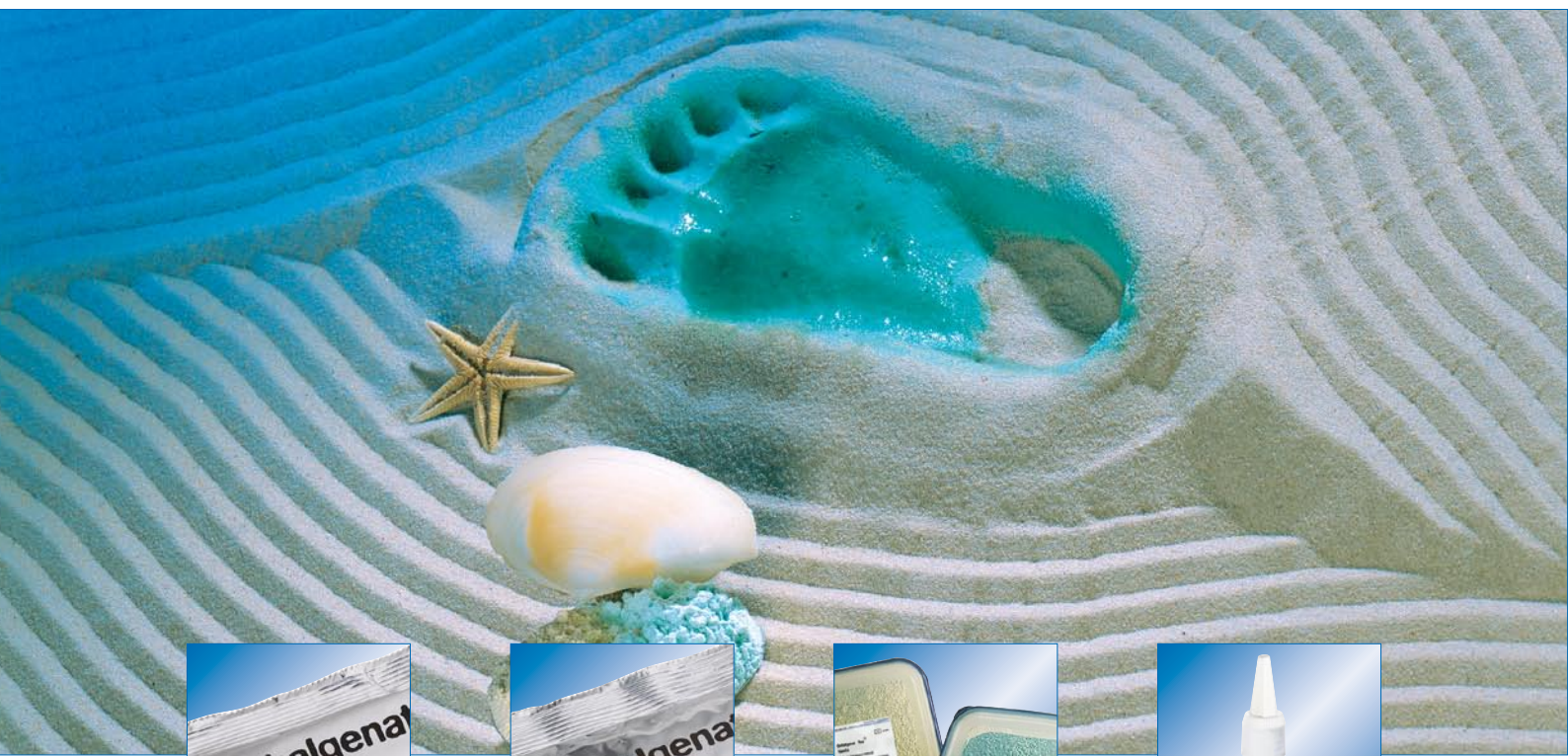


Refills for Set-components

(1)	Supercut ST-cutting disc, Ø 40 mm, thickness 1,0 mm	130-101-00	10 pieces
(2)	Supercut STM-cutting disc, mini, Ø 26 mm, thickness 1,0 mm	130-112-00	20 pieces
(3)	TX-cutting disc, Ø 22 mm, thickness 0,26 mm	130-512-00	100 pieces
(4)	Ti hard-alloy cutter, mini	123-610-00	5 pieces
(5)	Ti hard-alloy cutter, midi	123-611-00	1 piece
(6)	Ti hard-alloy cutter, maxi	123-612-00	1 piece
(7)	Ti hard-alloy cutter, maxi plus	123-613-00	1 piece
(8)	Aloxin grinder, blue	135-852-00	12 pieces
(9)	Aloxin grinder, blue	135-853-00	12 pieces
(10)	Emery cloth – 500 –	140-016-00	25 m
(11)	Rubber polisher grey, disc	138-102-00	100 pieces
(12)	Rubber polisher red, disc	138-601-00	100 pieces
(13)	Rubber polisher red, bob	138-603-00	100 pieces
(14)	Rubber polisher, roller	138-602-00	100 pieces
(15)	Polishing brushes, Ø 20 mm, black	141-800-00	10 pieces
(16)	Polishing brushes, Ø 60 mm, Chungking bristle, 2 rows	141-711-00	10 pieces
(17)	Pointed brushes, black	141-810-00	10 pieces
(18)	Tiger brillant, polishing paste	190-350-00	400 g
(19)	Mandrels for discs	139-300-00	10 pieces
(20)	Mandrels for cylinders	139-100-00	10 pieces
(21)	Mandrels for emery paper	139-500-00	10 pieces



Orthalgenat® Duo



The universal impression material

Very creamy consistency

Outstanding definition – optimal stability

Orthalgenat® Duo has a very high proportion of fine micro particles. This gives it a very creamy and homogenous consistency and enables it to reproduce outstanding definition with an even and smooth surface and optimal stability. This stability prevents the impression material from flowing over the edge of the impression tray.

High tear resistance

Utilization also for multi banded patients

Orthalgenat® Duo is a quick setting impression material and is especially resistant to tearing. Precision in all situations. Orthalgenat® Duo produces excellent results with deep undercuts and multi banded patients.

Good restoration after distortion

Precise impressions

Orthalgenat® Duo has excellent elasticity after setting due to its cross linked structure. This is an important factor when taking accurate impressions on multi banded patients. Once set, the restoration value after distortion (DIN/EN/ISO 21563) lies by more than 97.5%.

Pleasant taste

Highly accepted by patients

Orthalgenat® Duo is available in 2 different flavors which are especially popular amongst children: Mint and vanilla.

Virtually dust free

Easy and clean mixing

Orthalgenat® Duo is virtually dust free and guarantees easy and clean mixing. It is suitable for both manual mixing and automatic mixing machines.

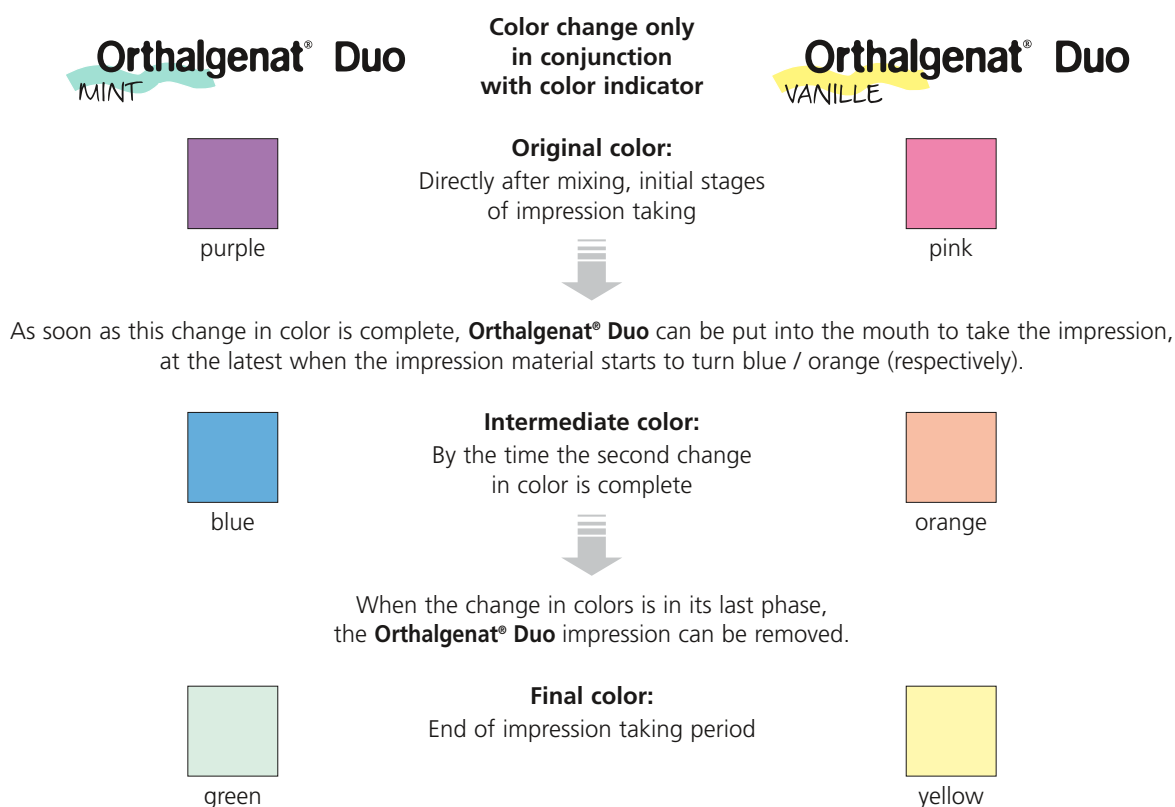
Compatible with all conventional dental plasters and disinfectants

Easy and universal use

Orthalgenat® Duo is compatible with all conventional dental plasters and disinfectants. The impressions can be repeatedly cast with plaster without compromising precision.

Optional – the separate color indicator

The new **Orthalgenat® Duo** separate color indicator is unique and can be added individually as desired. The color changes on the indicator depend on the original color of the impression material. It clearly shows the setting stages of the mixed **Orthalgenat® Duo**.



Accessories



318-004-00	10 pieces
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CE

Grid strengtheners

CrNi stainless steel (DIN 1.4301)

The numerous round perforations (2.5 mm) provide excellent resin bond to ensure a strong, stabilized denture base.

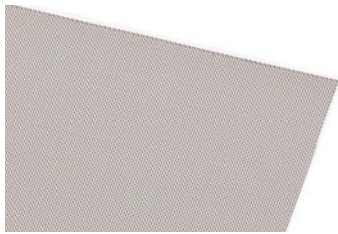
Thickness: 0,4 mm

Stainless steel

318-104-00	10 pieces
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CE

Stainless steel, gold plated.



316-110-00	1 piece
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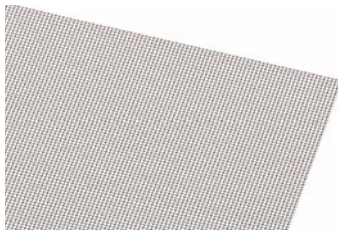
CE

Wire mesh

CrNi stainless steel (DIN 1.4301).

Wire mesh: 10 x 10 cm

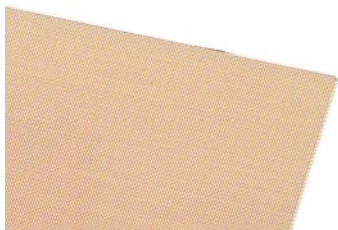
Stainless steel, fine



317-110-00	1 piece
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CE

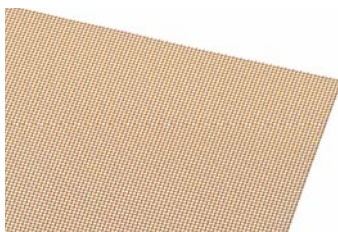
Stainless steel, coarse



316-210-00	1 piece
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CE

Stainless steel, gold plated, fine



317-210-00	1 piece
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CE

Stainless steel, gold plated, coarse

Isolating medium

Separating fluid for plaster against acrylics, and for plaster against plaster. Forms thin, abrasion resistant film.

Applications:

May be used for heat- and cold-cured resins.

Working time: 3 minutes.

162-800-00	1000 g
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Silicone mixing bowl

Flexible, with suction pad. For most mixing duties in the office and laboratory.

Not suitable for silicone materials.

Size: 75 ml

162-503-00	1 piece
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Size: 25 ml

162-502-00	1 piece
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Size: 5 ml

162-501-00	3 pieces
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Modelling wax, pink

For acrylic work.

Easy to adapt. Transparent.

Stable up to 37 °C / 99 °F.

Very easy modelling and set up of teeth.

Melting point: 64 °C / 147 °F.

Sheets: 80 x 175 mm.

Thickness: 1,5 mm.

119-150-00	500 g
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Flexaponal®-Special wax after Uhlig

For bite registration.

Accurately records the occlusion.

Adhesive borders on impression trays.

Soft, flexible and adhesive.

Color: red

120 x 15 x 1.0 mm.

124-003-00	80 g
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CE



Color: red

200 x 10 x 1.0 mm.

124-002-00	80 g
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CE



Color: white

200 x 10 x 1.0 mm.

124-202-00	80 g
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CE



Accessories



166-450-00	4.5 kg
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Model gloss

Giving a high gloss finish with pleasing appearance and making plaster models resistant to dust and handling marks.



043-800-00	1 piece
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Marking pencil

Indelible, for marking smooth surface.

Color: black



043-900-00	1 piece
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Color: red



043-700-00	6 pieces
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White wax pencil

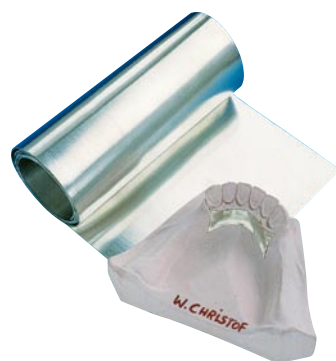


Matrix band material

CrNi stainless steel (DIN1.4310), spring-hard. In coils.

☑	Length	REF	Quantity
0.05 x 5.00 mm	1 m	831-601-00	1 piece
0.05 x 5.00 mm	10 m	831-701-00	1 piece
0.05 x 6.00 mm	1 m	831-606-00	1 piece
0.05 x 7.00 mm	1 m	831-603-00	1 piece
0.05 x 7.00 mm	10 m	831-703-00	1 piece

CE



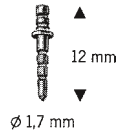
Tin foil

Pure tin 99.9% Sn. In coils.

Thickness	Width	Weight	REF	Quantity
0.1 mm	10 cm	250 g	324-610-00	1 piece
0.2 mm	10 cm	250 g	324-620-00	1 piece
0.25 mm	10 cm	250 g	324-725-00	1 piece
0.3 mm	10 cm	250 g	324-730-00	1 piece
0.4 mm	10 cm	250 g	324-740-00	1 piece
0.5 mm	10 cm	250 g	324-750-00	1 piece
0.6 mm	10 cm	250 g	324-760-00	1 piece

Titanium root posts

Pure titanium. Corrosion resistant. Biocompatible.



Ø	Length	REF	Quantity
1.7 mm	12 mm	200-112-00	100 pieces
1.75 mm	14 mm	200-114-00	100 pieces
1.9 mm	16 mm	200-116-00	100 pieces

CE 0483

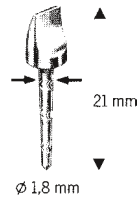
Assortment.

Contents
 33 x REF 200-112-00,
 34 x REF 200-114-00,
 33 x REF 200-116-00

200-200-00	1 assortment
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Titanium jacket crown posts

Pure titanium. Corrosion resistant. Biocompatible.



Ø	Length	REF	Quantity
1.7 mm	17 mm	204-217-00	1 piece
1.8 mm	19 mm	204-219-00	1 piece
1.8 mm	21 mm	204-221-00	1 piece

CE 0483

Impression material



150-501-10	1 kg
150-509-10	9 x 1 kg
150-520-10	20 x 1 kg

CE

Orthalgenat® Duo

Impression material.

Flavor: Vanilla

Color: yellow

Available:

1 kg in box

9 and 20 x 1 kg in bag



150-501-20	1 kg
150-509-20	9 x 1 kg
150-520-20	20 x 1 kg

CE

Flavor: Mint

Color: green

Available:

1 kg in box

9 and 20 x 1 kg in bag



150-510-00	20 ml
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CE

Orthalgenat® Duo Color Indicator

This Orthalgenat® Duo color indicator can be added entirely as required. The indicator changes color depending on the color of the impression material to show clearly which setting stage the Orthalgenat® Duo has reached.



150-010-00	1.5 kg
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Orthalgenat®-Ex

Impression tray cleaner.

Concentrate for manual or ultrasonic cleaning.

Rapidur® synthetic plaster

White, superhard, smooth. Class IV

Application:

CoCr casting, precious metal work, acrylics, ceramic, orthodontics. Acc. to DIN EN 26873.

Setting expansion	max. 0.15%
Compression resistance after 24 h	min 35 MPa
Working time	min. 3 Min.
Setting time	max. 30 Min.

164-450-00	6 kg
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Mixing bowls

PVC bowls for gypsum and for investment material. Easy cleaning.

For 600 ml.

164-650-00	1 piece
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For 400 ml.

164-651-00	1 piece
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Ultrasonic cleaning solutions

To remove polishing paste, waxes, grease.

094-610-00	1000 ml
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To remove plaster and plaster based investment material.

094-611-00	1000 ml
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To remove calculus, cement, etching residues.

094-612-00	1000 ml
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Wires and Clasps



Large selection – excellent quality

A wide range of products

For use in almost all treatments in prosthetics and orthodontics

The Dentaurem product range supports your daily lab work and makes your life much easier. You will find an exceptional large selection of wires and pre-formed wire clasps. remanium® wires are available in different grades of mechanical properties to be used in a wide range of prosthetic and orthodontic applications. Our offer of clasps includes the most popular clasps in prosthetics.

Perfect to the last detail

Reliable and effective prosthetic results

All of Dentaurem's wire and arch products are extremely precise and dimensionally accurate. This superior quality guarantees optimum results. Dentaurem has decades of experience in the production of wires. This fact gives you the confidence that you can rely on products that are functional, dimensionally extremely precise and mechanically highly stable at all times.



Extraordinary mechanical properties

High yield strength, high elasticity

The fine mechanical properties of Dentaaurum's wires and arches are achieved by an ideal combination of cold processing and heat treatment. Thanks to these processes you will always find the ideal elongation, strength and elasticity to fulfil every requirement for almost all applications in prosthetics.

Excellent surface quality

Low friction values

The so-called diamond polishing on Dentaaurum's remanium® and remaloy® wires and arches produces virtually scratch-free surfaces, a prerequisite for the low friction values so important in orthodontic and prosthetic treatment. The extremely smooth surfaces are resistant to corrosion and plaque build-up. (See also the chapter "Orthodontics")

Consistant top quality

Reliable results every time

All Dentaaurum products undergo strict quality controls within a certified quality management system. Finest materials and optimal production conditions guarantee a consistent and reliable high level of quality, one reason for their biocompatibility and high resistance to oral corrosion. These qualities give you confidence in your responsibility toward your patients.

Wires

remanium® wires, diamond drawn

They are characterised by their absolute resistance to oral corrosion as well as their very high strength and excellent ductility.

remanium® wires are made of the best quality CrNi stainless steel (DIN 1.4310), and are diamond drawn.

remanium® wires possess all the special properties that are necessary for orthodontics and prosthetics. remanium® wires are available in different grades of physical and mechanical properties to be used in a wide variety of clinical application.

Technical data:	Tensile strength [N/mm ²]
Quality soft:	≤ 800
hard:	1400–1600
spring hard:	1800–2000

Applications:

- A = Adams-Clasps
- B = Triangular Clasps
- C = Labial Arches
- D = Springs
- E = Clasps



remanium® Straight Wires, round

Stainless steel

Strength category: spring hard * · 1800 to under 2000 N/mm²
Color coded packaging: red

∅	Length	R _n	REF	Quantity
0.40 mm / 16	each 380 mm	1900 N/mm ²	525-040-00	25 pieces
0.70 mm / 28	each 150 mm	1900 N/mm ²	527-004-00	1100 pieces
0.70 mm / 28	each 190 mm	1900 N/mm ²	527-005-00	900 pieces
0.70 mm / 28	each 300 mm	1900 N/mm ²	527-070-00	25 pieces
0.80 mm / 31	each 150 mm	1900 N/mm ²	527-006-00	875 pieces
0.80 mm / 31	each 300 mm	1900 N/mm ²	527-080-00	25 pieces
0.90 mm / 36	each 300 mm	1900 N/mm ²	527-090-00	25 pieces
1.00 mm / 39	each 300 mm	1900 N/mm ²	527-100-00	25 pieces

CE 0483

remanium® Laboratory Coils, round

Stainless steel

Strength category: hard * · 1400 to under 1600 N/mm²
also see Noninium®



∅	Length	R _n	REF	Quantity
0.70 mm / 28	30 m	1500 N/mm ²	513-070-00	1 piece
0.80 mm / 31	20 m	1500 N/mm ²	513-080-00	1 piece
0.90 mm / 36	10 m	1500 N/mm ²	513-090-00	1 piece
1.00 mm / 39	10 m	1500 N/mm ²	513-100-00	1 piece
1.20 mm / 47	10 m	1500 N/mm ²	513-120-00	1 piece
1.50 mm / 59	10 m	1500 N/mm ²	513-150-00	1 piece

CE 0483

remanium® Clinical Coils, round

Stainless steel

Strength category: hard * · 1400 to under 1600 N/mm²



∅	Length	R _n	REF	Quantity
0.70 mm / 28	165 m	1500 N/mm ²	514-070-00	1 piece
0.80 mm / 31	125 m	1500 N/mm ²	514-080-00	1 piece
0.90 mm / 36	100 m	1500 N/mm ²	514-090-00	1 piece
1.00 mm / 39	80 m	1500 N/mm ²	514-100-00	1 piece

CE 0483

remanium® Laboratory Coils, round

Stainless steel

Strength category: spring hard * · 1800 to under 2000 N/mm²
also see Noninium®



∅	Length	R _n	REF	Quantity
0.40 mm / 16	30 m	1900 N/mm ²	521-040-00	1 piece
0.50 mm / 20	50 m	1900 N/mm ²	523-050-00	1 piece
0.60 mm / 23	40 m	1900 N/mm ²	523-060-00	1 piece
0.70 mm / 28	30 m	1900 N/mm ²	523-070-00	1 piece
0.80 mm / 31	20 m	1900 N/mm ²	523-080-00	1 piece
0.90 mm / 36	10 m	1900 N/mm ²	523-090-00	1 piece
1.00 mm / 39	10 m	1900 N/mm ²	523-100-00	1 piece
1.10 mm / 43	10 m	1900 N/mm ²	523-110-00	1 piece
1.20 mm / 47	10 m	1900 N/mm ²	523-120-00	1 piece
1.50 mm / 59	10 m	1900 N/mm ²	523-150-00	1 piece

CE 0483

remanium® Clinical Coils, round

Stainless steel

Strength category: spring hard * · 1800 to under 2000 N/mm²

∅	Length	R _s	REF	Quantity
0.60 mm / 23	225 m	1900 N/mm ²	524-060-00	1 piece
0.70 mm / 28	165 m	1900 N/mm ²	524-070-00	1 piece
0.80 mm / 31	125 m	1900 N/mm ²	524-080-00	1 piece
0.90 mm / 36	100 m	1900 N/mm ²	524-090-00	1 piece
1.00 mm / 39	80 m	1900 N/mm ²	524-100-00	1 piece



CE 0483

remanium® Laboratory Coils, half round

Stainless steel

Strength category: hard * · 1400 to under 1600 N/mm²

∅	Length	R _s	REF	Quantity
1.30 x 0.65 mm	10 m	1500 N/mm ²	308-513-00	1 piece
1.50 x 0.75 mm	10 m	1500 N/mm ²	308-515-00	1 piece
1.75 x 0.90 mm	10 m	1500 N/mm ²	308-518-00	1 piece
2.00 x 1.00 mm	10 m	1500 N/mm ²	308-520-00	1 piece



CE 0483

remanium® Clinical Coils, half round

Stainless steel

Strength category: hard * · 1400 to under 1600 N/mm²

∅	Length	R _s	REF	Quantity
1.30 x 0.65 mm	90 m	1500 N/mm ²	308-713-00	1 piece
1.50 x 0.75 mm	65 m	1500 N/mm ²	308-715-00	1 piece
1.75 x 0.90 mm	50 m	1500 N/mm ²	308-718-00	1 piece



CE 0483

remanium® Laboratory Coils, oval

Stainless steel

Strength category: hard * · 1400 to under 1600 N/mm²

∅	Length	R _s	REF	Quantity
2.40 x 1.40 mm	10 m	1500 N/mm ²	385-624-00	1 piece
3.00 x 1.50 mm	10 m	1500 N/mm ²	385-630-00	1 piece



CE 0483

Wires

Noninium® Wires

Nickelfree stainless steel acc. to DIN 1.4456 (Cr-Mn-Stainless steel). Nickel trace elements of $\leq 0.2\%$ are due to the process of manufacturing.

Advantages:

- Low nickel – the alternative solution for nickel-sensitive patients
- unbreakable
- corrosion resistant

Technical data:

hard:
spring hard:

Tensile strength
[N/mm²]

1400–1600
1800–2000

Chemical composition:

Mn 16.0 – 20.0
Cr 16.0 – 20.0
Mo 1.8 – 2.5
N 0.7 – 1.0
Si ≤ 1.0
Ni ≤ 0.2
V ≤ 0.2
C ≤ 0.1
P ≤ 0.05
S ≤ 0.05
Rest: Fe



Noninium® Coil of Wire round

Nickelfree** stainless steel

Nickelfree** · Nickel trace elements of $\leq 0.2\%$ are due to the process of manufacturing.
Strength category: hard * · 1400 to under 1600 N/mm²
also see remanium®

∅	Length	R.	REF	Quantity
0.70 mm / 28	30 m	1500 N/mm ²	520-070-00	1 piece
0.80 mm / 31	20 m	1500 N/mm ²	520-080-00	1 piece
0.90 mm / 36	10 m	1500 N/mm ²	520-090-00	1 piece
1.20 mm / 47	10 m	1500 N/mm ²	520-120-00	1 piece

CE 0483



Noninium® Coil of Wire round

Nickelfree** stainless steel

Nickelfree** · Nickel trace elements of $\leq 0.2\%$ are due to the process of manufacturing.
Strength category: spring hard * · 1800 to under 2000 N/mm²
also see remanium®

∅	Length	R.	REF	Quantity
0.60 mm / 23	40 m	1900 N/mm ²	520-062-00	1 piece
0.70 mm / 28	30 m	1900 N/mm ²	520-072-00	1 piece
0.80 mm / 31	20 m	1900 N/mm ²	520-082-00	1 piece
0.90 mm / 36	10 m	1900 N/mm ²	520-092-00	1 piece

CE 0483

Crozat, Redur®, remaloy® wire

Heat treatable, self annealing Cobalt based alloy. CoNi-22Cr18Mo4W4Fe5.

Special wire for solderings.

Wire hardens through mechanical treatment such as polishing.

- Strength category: hard
1400 to under 1600 N/mm²
- ▲ Strength category: spring hard
1800 to under 2000 N/mm²

remaloy® Straight Wire, round

Can be heat treated · 450 °C / 842 °F for about 5 minutes

Strength category: hard * · 1400 to under 1600 N/mm²

Recommended for Quad Helix, Crozat Appliances, Palatal and Lingual Bars, etc.

Color coded packaging: blue

CoCr



ø	Length	R.	REF	Quantity
0.70 mm / 28	each 380 mm	1500 N/mm ²	528-070-00	10 pieces
0.80 mm / 31	each 380 mm	1500 N/mm ²	528-080-00	10 pieces
0.90 mm / 36	each 380 mm	1500 N/mm ²	528-090-00	10 pieces
1.00 mm / 39	each 380 mm	1500 N/mm ²	528-100-00	10 pieces
1.10 mm / 43	each 380 mm	1500 N/mm ²	528-110-00	10 pieces
1.20 mm / 47	each 380 mm	1500 N/mm ²	528-120-00	10 pieces
1.30 mm / 51	each 380 mm	1500 N/mm ²	528-130-00	10 pieces
1.50 mm / 59	each 380 mm	1500 N/mm ²	528-150-00	10 pieces

CE 0483

remaloy® Straight Wire, half round

Can be heat treated · 450 °C / 842 °F for about 5 minutes

Strength category: spring hard * · 1800 to under 2000 N/mm²

Color coded packaging: blue

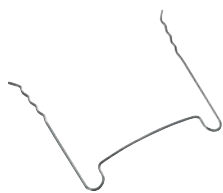
CoCr



∩	Length	R.	REF	Quantity
1.50 x 0.75 mm	each 380 mm	1900 N/mm ²	528-155-00	10 pieces
1.75 x 0.90 mm	each 380 mm	1900 N/mm ²	528-158-00	10 pieces

CE

Wires / Clasps



Noninium® Standard Labial Arches

Nickel free · Nickel trace elements of $\leq 0.2\%$ are due to the process of manufacturing.
Strength category: spring hard * · 1800 to under 2000 N/mm²

∅	mesial-distal	REF	Quantity
0.80 mm / 31	28 mm	621-028-00	10 pieces
0.80 mm / 31	31 mm	621-031-00	10 pieces
0.80 mm / 31	34 mm	621-034-00	10 pieces
0.80 mm / 31	37 mm	621-037-00	10 pieces
0.80 mm / 31	40 mm	621-040-00	10 pieces
0.80 mm / 31	43 mm	621-043-00	10 pieces
0.80 mm / 31	46 mm	621-046-00	10 pieces

CE



621-500-00	1 Assortment
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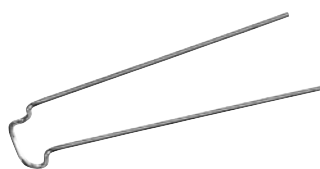
CE

Noninium® Adams Clasps

Nickel free
Nickel trace elements of $\leq 0.2\%$ are due to the process of manufacturing.
Strength category: spring hard * · 1800 to under 2000 N/mm²

Assortment:

- 1 Assortment = 250 pieces
- 7 mm = 30 pieces, REF 621-404-00
- 8 mm = 30 pieces, REF 621-405-00
- 9 mm = 40 pieces, REF 621-406-00
- 10 mm = 60 pieces, REF 621-407-00
- 11 mm = 60 pieces, REF 621-408-00
- 12 mm = 30 pieces, REF 621-409-00

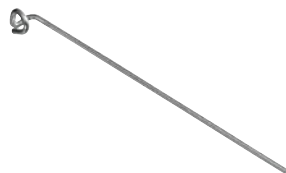


Noninium® Adams Clasps

Nickel free · Nickel trace elements of $\leq 0.2\%$ are due to the process of manufacturing.
Strength category: spring hard * · 1800 to under 2000 N/mm²

∅	mesial-distal	REF	Quantity
0.70 mm / 28	7 mm	621-404-00	10 pieces
0.70 mm / 28	8 mm	621-405-00	10 pieces
0.70 mm / 28	9 mm	621-406-00	10 pieces
0.70 mm / 28	10 mm	621-407-00	10 pieces
0.70 mm / 28	11 mm	621-408-00	10 pieces
0.70 mm / 28	12 mm	621-409-00	10 pieces

CE

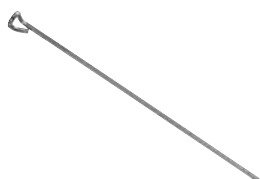


Noninium® Triangular Clasp

Nickel free · Nickel trace elements of $\leq 0.2\%$ are due to the process of manufacturing.
Strength category: spring hard * · 1800 to under 2000 N/mm²

∅	Length	REF	Quantity
0.70 mm / 28	each 36 mm	621-300-00	100 pieces

CE



Noninium® Arrow Clasp

Nickel free · Nickel trace elements of $\leq 0.2\%$ are due to the process of manufacturing.
Strength category: spring hard * · 1800 to under 2000 N/mm²

∅	Length	REF	Quantity
0.70 mm / 28	each 41 mm	621-200-00	100 pieces

CE

Noninium® Ball Retainer Clasps

Nickel free · Nickel trace elements of $\leq 0.2\%$ are due to the process of manufacturing.
Strength category: spring hard * · 1800 to under 2000 N/mm²

ø	Length	REF	Quantity
0.70 mm / 28	each 38 mm	620-207-00	100 pieces
0.80 mm / 31	each 38 mm	620-208-00	100 pieces
0.90 mm / 35	each 38 mm	620-209-00	100 pieces
1.00 mm / 39	each 38 mm	620-210-00	100 pieces

CE 0483



remanium® Ball Retainer Clasps

Strength category: hard * · 1400 to under 1600 N/mm²

ø	Length	REF	Quantity
0.70 mm / 28	each 38 mm	620-107-00	100 pieces
0.80 mm / 31	each 38 mm	620-108-00	100 pieces
0.90 mm / 35	each 38 mm	620-109-00	100 pieces
1.00 mm / 39	each 38 mm	620-110-00	100 pieces

CE



remanium® Arrow Anchor

Strength category: hard * · 1400 to under 1600 N/mm²

ø	Length	REF	Quantity
0.80 mm / 31	each 40 mm	620-708-00	10 pieces

CE



Guide Pins

G. Mueller®

Guide pins between upper and lower plates intended for bite correction of Angle Class II.
Stainless Steel DIN 1.4310 *

607-204-00	2 pieces
607-204-30	20 pieces

CE



Guide Pins

Hinz

Stainless Steel AISI 304 *
ø 1.20 mm / 47

607-202-00	1 piece
607-202-30	10 pieces

CE



Lingual Bars

Anatomically shaped e.g. for occlusion plates.
Stainless Steel DIN 1.4301 *

ø	Length	REF	Quantity
–	6 cm	311-306-30	10 pieces
–	7 cm	311-307-30	10 pieces
–	8 cm	311-308-30	10 pieces

CE



Strengtheners

Twisted and rolled flat.
CrNi stainless steel wire
(DIN 1.4404).

Length: 10 m

312-106-00	1.8 x 0.8 mm
312-107-00	2.4 x 0.8 mm

CE



Wires / Clasps



Preformed wire clasps

CrNi stainless steel (DIN 1.4401).

		Ø	REF	Quantity
Cuspids 13 33		0.9 mm	320-001-00	10 pieces
Cuspids with rest 23 43		0.9 mm	320-002-00	10 pieces
Cuspids without rest		0.9 mm	320-005-00	10 pieces
Bicuspids with rest, upper		0.9 mm	320-010-00	10 pieces
Bicuspids with rest, lower		0.9 mm	320-011-00	10 pieces
Molars with rest		1.0 mm	320-020-00	10 pieces
Bicuspids		0.9 mm	320-021-00	10 pieces
Molars		1.0 mm	320-022-00	10 pieces
Bicuspids wide rest		0.9 mm	320-023-00	10 pieces
Molars wide rest		1.0 mm	320-024-00	10 pieces
Bicuspids		0.9 mm	320-109-00	10 pieces
Molars		1.0 mm	320-110-00	10 pieces

CE

320-200-00	1 assortment
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CE



Assortment

contains:

10 x REF 320-001-00, 10 x REF 320-002-00,
 10 x REF 320-005-00, 10 x REF 320-010-00,
 10 x REF 320-011-00, 10 x REF 320-020-00,
 10 x REF 320-021-00, 10 x REF 320-022-00,
 10 x REF 320-023-00, 10 x REF 320-024-00,
 10 x REF 320-109-00, 10 x REF 320-110-00.

Grid strengtheners

CrNi stainless steel (DIN 1.4301)

The numerous round perforations (2.5 mm) provide excellent resin bond to ensure a strong, stabilized denture base.

Thickness: 0,4 mm

Stainless steel

318-004-00	10 pieces
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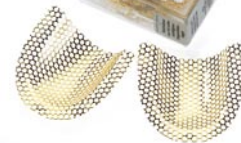
CE



Stainless steel, gold plated.

318-104-00	10 pieces
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CE



Wire mesh

CrNi stainless steel (DIN 1.4301).

Wire mesh: 10 x 10 cm

Stainless steel, fine

316-110-00	1 piece
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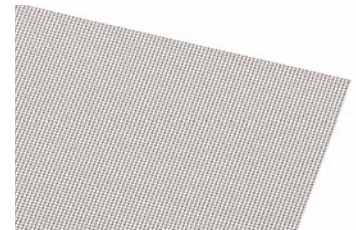
CE



Stainless steel, coarse

317-110-00	1 piece
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CE



Stainless steel, gold plated, fine

316-210-00	1 piece
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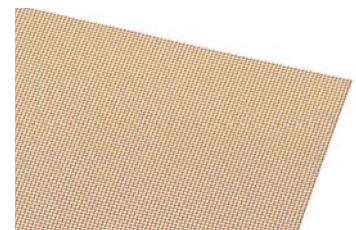
CE



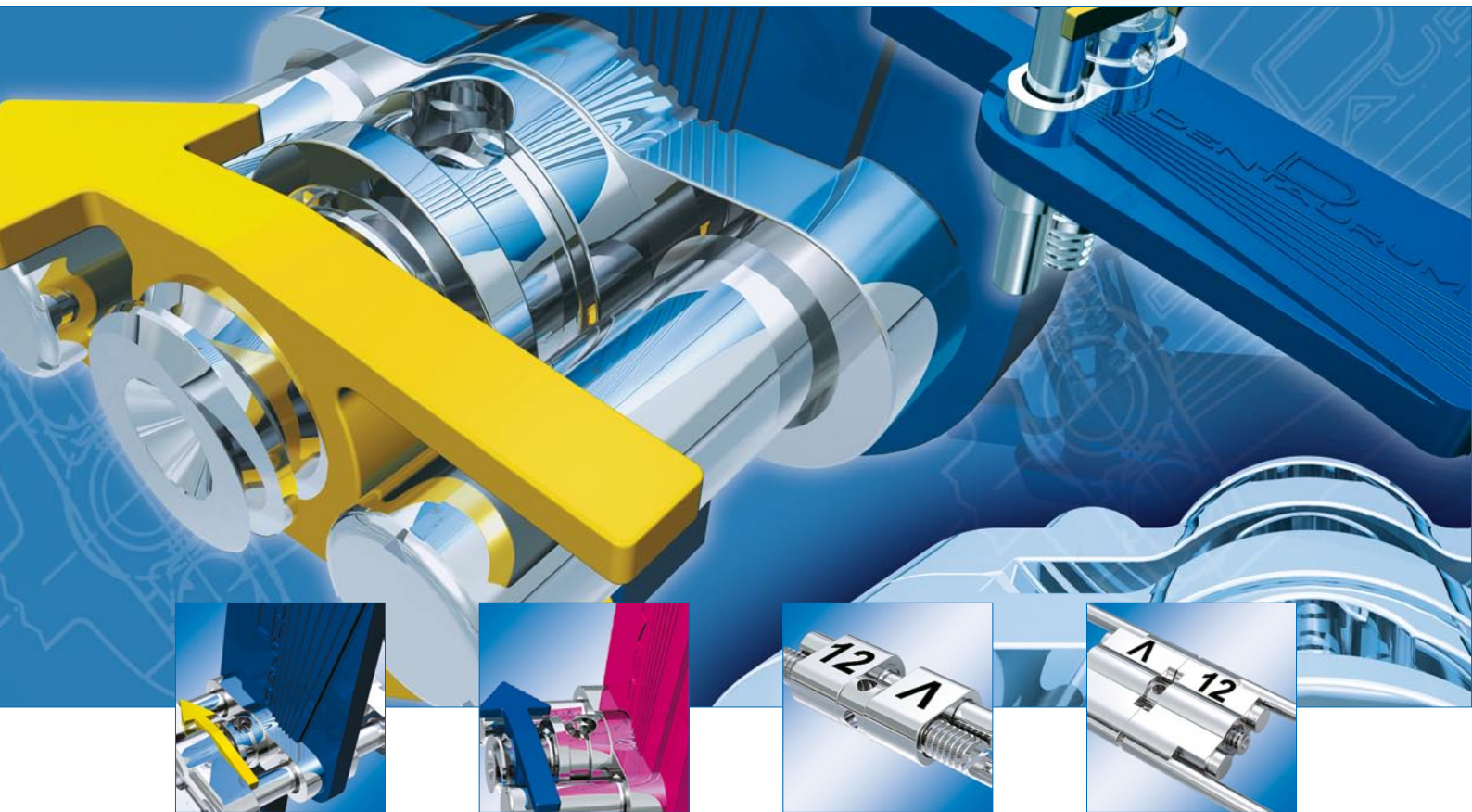
Stainless steel, gold plated, coarse

317-210-00	1 piece
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CE



Expansion Screws



Perfect in form, function and finish

A wide selection of products

For virtually all treatment plans

Dentaurum's selection of stainless steel expansion screws ranges from standard expansion screws to more complex special expansion screws such as Bertoni's three dimensional screws. rematitan® expansion screws, the biocompatible alternatives in pure titanium for sensitive patients, round off this wide selection.

Perfect to the last detail

Reliable and effective treatment results

Dentaurum's expansion screws achieve wide expansion despite their small size. The built-in stops prevent the screws from coming apart. Precision thread friction and the built-in screw lock mechanism enables precise opening of the screw without unwanted "turning back". Strong and stable screw construction due to high precision and excellent quality.

A selection of expansion screws

Titanium Hyrax® Maxi - 12

The world's first expansion screw in pure titanium

Apart from the Titanium Hyrax® 14/12 expansion screw's perfect design it also has unbeatable biocompatibility. This is due to the fact that it is made of pure titanium which can be used for treatments with especially sensitive patients. The functional highlights of this innovative product are:

- The built-in screw lock to prevent unwanted "turning back"
- The built-in screw stop to prevent the screw from coming apart once maximum expansion has been obtained
- Excellent thread strength which creates high stability

Variety SP

The versatile, multi functional expansion screw

The Variety expansion screw's compact design is extremely comfortable for the patient to wear despite its wide expansion of 12 mm. Its functional highlights among others are:

- The biocompatible laser welded legs, which are mechanically extremely strong
- 2 instead of 4 retention legs, which opens a whole new range of possibilities

2 instead of 4 retention legs makes the Variety expansion screw versatile and can be used in both upper and lower appliances. An example of this would be:

- Distalization and mesialization of posterior teeth
- Osseous distraction in the lower jaw
- Uprighting, expand, rotate and torquing of molars
- Early expansion of the maxilla

Forward Thrust Double Plate System (Schaneng)

The elastic system

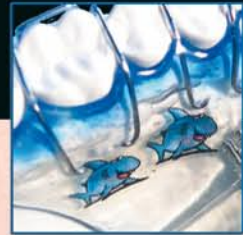
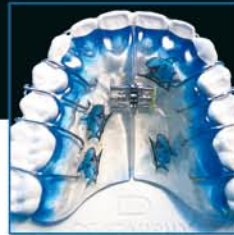
The flexible forward thrust double plate system differs from conventional systems in the elasticity of the intermaxillary guide elements. This creates a more gentle application of force on the temporomandibular joint. Forward thrust double plates also have the advantage that apart from shifting occlusion it is also possible to move individual teeth with the aid of springs.

Other advantages include:

- Guide ridge is round and smooth, causing no risk of injury to the patient
- Guide ridge is flexible and interconnected, therefore, less likely to brake
- Location template ensures that the guide ridge slides properly on the lingual plate at an angle of 60°

The extraordinary Orthodontic Acrylic System

Orthocryl®



Vibrant colors – Fascinating Varieties

Orthocryl®

especially suitable for the
"Salt and Pepper" technique

Minimal Material Use

It is the excellent stability which makes Orthocryl® especially suitable for the salt and pepper technique. The special sprinkle and spray nozzles make processing easy for the user.

Orthocryl® EQ

Orthocryl EQ - especially suitable
for the "Doughing" technique

Excellent sculpting

It is the excellent flowing characteristics and long processing times which make Orthocryl® EQ especially suitable for the doughing technique.

Long processing times

Stress free

The processing times of Orthocryl® have been set so that the technician can work comfortably without feeling rushed and under time pressure. Better and more effective working results can be achieved quickly through this advantage in every day laboratory life.



Excellent shrinkage characteristics

Best possible fit

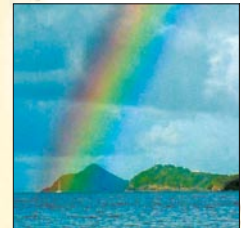
It was possible to reduce the shrinkage of the Orthocryl® 2-component cold cured acrylic (powder = polymer, liquid = monomer) to an absolute minimum. Therefore, Orthocryl® guarantees an unbeatably accurate fit.



Many different colors and effects

Endless creativity

The Orthocryl® Acrylic colors range from classic shades to modern, funky neon colors. There are various glitter effects which can be used and attractive, novel picture designs. You can let your creativity run wild and provide your patients with a unique and individualized orthodontic appliance they will enjoy.



Scientifically tested

Safety for user and patient

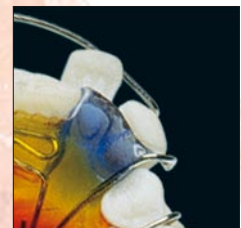
Orthocryl® cold cured acrylic resins have been extensively tested, both in a polymerized form as used by the patient and the grinding particles generated during processing. Impressive results proved that this orthodontic acrylic is biologically safe. Orthocryl® cold cured acrylic resins are non-toxic, do not cause irritation of the mucous membrane and do not contain any mutagenic properties. They have excellent biocompatible qualities.



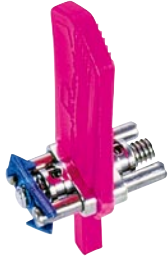
Consistant top quality

Reliable results

The many years of manufacturing experience and the very careful, unconditional selection of raw materials are fact enough to reassure the technician he can always depend on the top quality certificate **Made in Germany**.



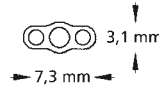
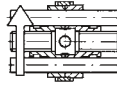
Standard Expansion Screws



600-400-10	1 piece
600-400-30	10 pieces

CE

← 11 mm →



rematitan®-Expansion Screw, Medium

Made of pure titanium.

Skeleton design

For transversal expansion and distalization in upper and lower arch. Pearl-blue plastic directional arrows. Holes in body of screws for better retention in acrylic. Built-in stops prevent screws from coming apart.

Maximum expansion: 7.5 mm

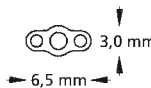
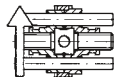
4 x 1/4 turn = 0.80 mm



600-300-10	1 piece
600-300-30	10 pieces
600-300-60	100 pieces

CE

← 10 mm →



Expansion Screw, Mini

Skeleton design

For transversal expansion and distalization in the lower arch or for especially narrow upper arches. White plastic directional arrows. Holes in body of screws for better retention in acrylic. Built-in stops prevent screws from coming apart.

Maximum expansion: 6.5 mm

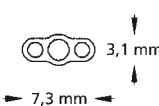
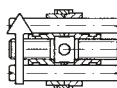
4 x 1/4 turn = 0.70 mm



600-301-10	1 piece
600-301-30	10 pieces
600-301-60	100 pieces

CE

← 11 mm →



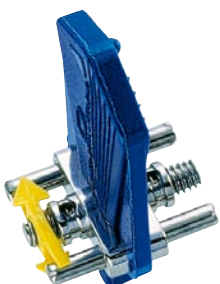
Expansion Screw, Medium

Skeleton design

For transversal expansion and distalization in the upper and lower arch. Neon yellow plastic directional arrows. Holes in body of screws for better retention in acrylic. Built-in stops prevent screws from coming apart.

Maximum expansion: 7.5 mm

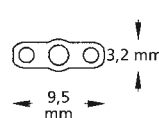
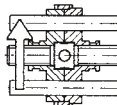
4 x 1/4 turn = 0.80 mm



600-302-10	1 piece
600-302-30	10 pieces
600-302-60	100 pieces

CE

← 11 mm →



Expansion Screw, Maxi

Skeleton design

For transversal expansion in the upper arch. Neon yellow plastic directional arrows. Holes in body of screws for better retention in acrylic. Built-in stops prevent screws from coming apart.

Maximum expansion: 7.5 mm

4 x 1/4 turn = 0.80 mm

Standard Expansion Screws

Expansion Screw, Magnum

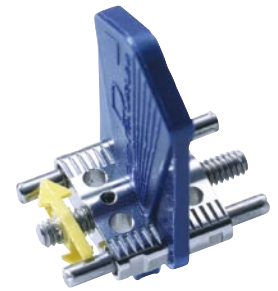
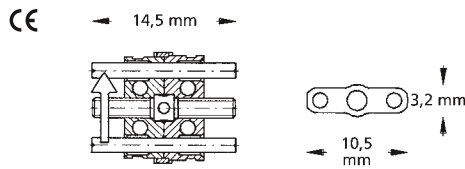
Skeleton design

Extra strong, for transversal expansion in the upper arch and bimaxillary functional gnatho-orthopedic appliances. Neon yellow plastic directional arrows. Holes in body of screws for better retention in acrylic. Built-in stops prevent screws from coming apart.

Maximum expansion: 11 mm

4 x 1/4 turn = 0.80 mm

600-303-10	1 piece
600-303-30	10 pieces
600-303-60	100 pieces



Trapezoidal Expansion Screw

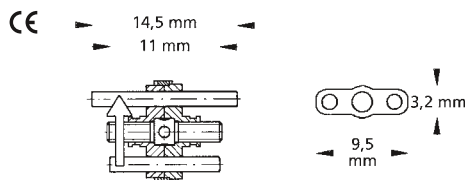
Skeleton design

For narrow maxillas and as activation screw for bimaxillary functional gnatho orthopedic appliances. Neon yellow plastic directional arrows.

Maximum expansion: 5 mm

4 x 1/4 turn = 0.80 mm

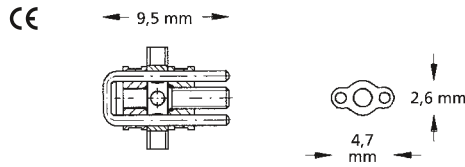
600-310-30	10 pieces
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Special Screws



600-502-10	1 piece
600-502-30	10 pieces
600-502-60	100 pieces



Sectional Screw, Mini

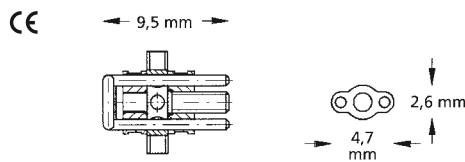
Straight guide pins

For movement of individual teeth. Arrow indicating the opening direction.

Maximum expansion: 4 mm
 $4 \times \frac{1}{4} \text{ turn} = 0.35 \text{ mm}$



600-503-10	1 piece
600-503-30	10 pieces
600-503-60	100 pieces

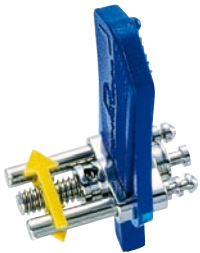


Sectional Screw, Mini

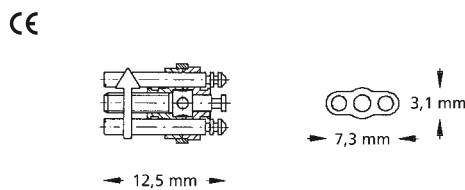
Angulated guide pins facing down

For movement of individual teeth. Arrow indicating the opening direction.

Maximum expansion: 4 mm
 $4 \times \frac{1}{4} \text{ turn} = 0.35 \text{ mm}$



600-500-10	1 piece
600-500-30	10 pieces
600-500-60	100 pieces



Sectional Screw, Medium

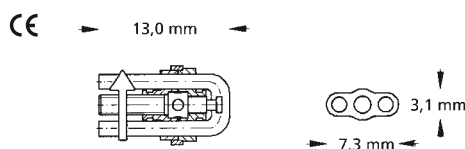
Straight guide pins

Neon yellow plastic directional arrows. Holes in body of screw for better retention in acrylic. Built-in stops prevent screws from coming apart.

Maximum expansion: 6 mm
 $4 \times \frac{1}{4} \text{ turn} = 0.40 \text{ mm}$



600-501-10	1 piece
600-501-30	10 pieces
600-501-60	100 pieces



Sectional Screw, Medium

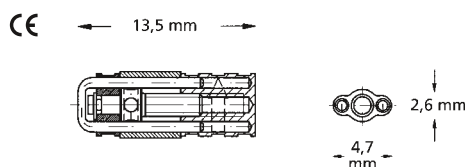
Angulated guide pins facing down

Neon yellow plastic directional arrows. Guide pins angulated for better placement in acrylic. Holes in body of screws for better retention in acrylic. Built-in stops prevent screws from coming apart.

Maximum expansion: 6 mm
 $4 \times \frac{1}{4} \text{ turn} = 0.40 \text{ mm}$



600-602-30	10 pieces
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Retraction Screw, Extra Mini

Straight

U-shaped guide pins. For space closing and movement of individual teeth. Arrow indicating the opening direction.

Maximum retraction: 3 mm
 $4 \times \frac{1}{4} \text{ turn} = 0.40 \text{ mm}$

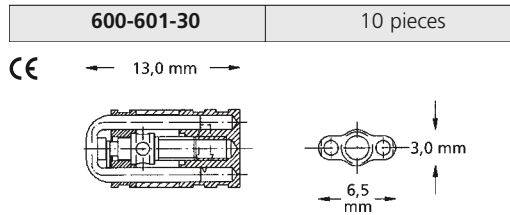
Retraction Screw, Mini

Straight

U-shaped guide pins. For space closing and movement of individual teeth. Arrow indicating the opening direction.

Maximum retraction: 2.5 mm

4 x 1/4 turn = 0.40 mm



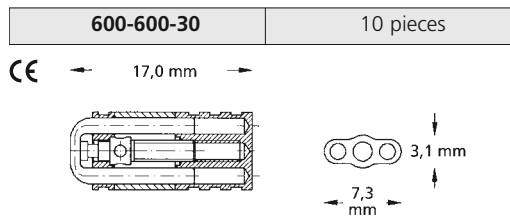
Retraction Screw, Medium

Straight

U-shaped guide pins. For space closing and movement of individual teeth. Arrow indicating the opening direction.

Maximum retraction: 4.5 mm

4 x 1/4 turn = 0.40 mm



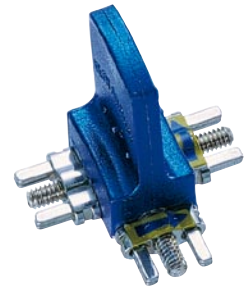
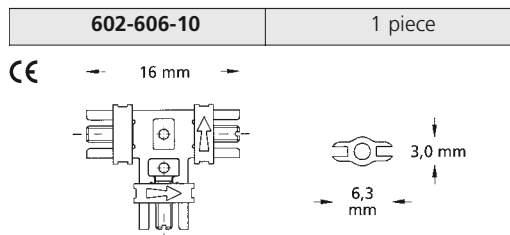
Three Dimensional Screw

(Bertoni)

Combination transversal and protrusion screw for Y-plates. Strengthened guides. Arrow indicating the opening direction.

Maximum expansion: 4 mm per segment

4 x 1/4 turn = 0.35 mm



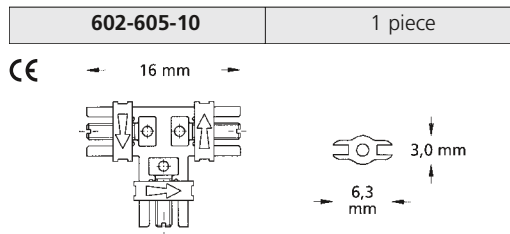
Three Dimensional Screw

(Bertoni)

Three independently controlled movements. Strengthened guides for Y-plates. Arrow indicating the opening direction.

Maximum expansion: 4 mm per segment

4 x 1/4 turn = 0.35 mm



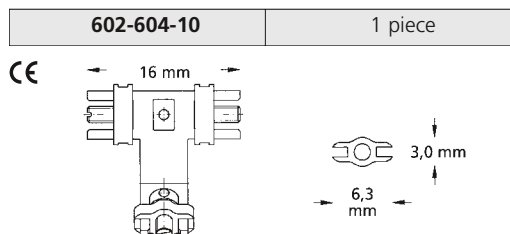
Three Dimensional Screw

(Steiner)

The separately adjustable central connector allows individual fitting to different palate shapes. Strengthened guides. Combination transversal and protrusion screw for Y-plates. Arrow indicating the opening direction.

Maximum expansion: 4 mm per segment

4 x 1/4 turn = 0.35 mm



Special Screws



606-600-00	1 piece
606-600-30	10 pieces

CE

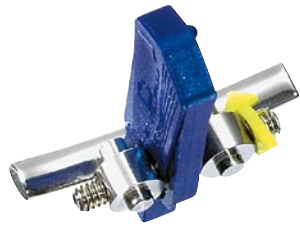
← 12 mm →



Fan-type Expansion Screw

For sectional expansion of maxillary anteriors. Plate sections are opened fanwise. Arrow indicating the opening direction.

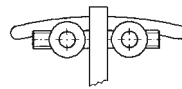
Maximum expansion: 7 mm
4 x 1/4 turn = 0.80 mm



606-701-00	1 piece
606-701-30	10 pieces

CE

← 20,0 mm →



Mandibular Bow Screw

(Mueller)

For lateral and sagittal anterior expansion of the mandible. Arrow indicating the opening direction.

Maximum expansion: 5 mm
4 x 1/4 turn = 0.80 mm



600-000-00	1 Assortment
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CE

"Flexible" Forward Thrust Double Plate System

(Schaneng)

For the treatment of distal malocclusions. The flexible forward thrust double plate system is a new development and differs from conventional systems in the flexibility of the intermaxillary elements.

Starter set consisting of:

- 3 x Screws with guide ridge for forward thrust double plate REF 600-001-00
- 1 x Adapter, narrow REF 600-003-00
- 1 x Adapter, wide REF 600-004-00
- 1 x Locating template REF 600-005-00
- 1 x Instructions



600-001-00	1 piece
600-001-30	10 pieces

CE

"Flexible" Forward Thrust Double Plate System

(Schaneng)

Guide Ridge

With palatal expansion screw.

Length of Guide Ridge: 14 mm

"Flexible" Forward Thrust Double Plate System

(Schaneng)

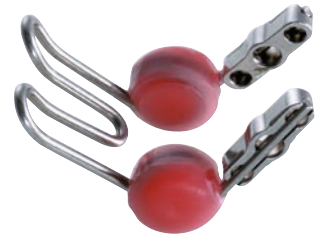
Guide Ridge

Without palatal expansion screw.

Length of Guide Ridge: 14 mm

600-002-00	1 piece
600-002-30	10 pieces

CE



"Flexible" Forward Thrust Double Plate System

(Schaneng)

Guide Ridge Adapter

To produce the diagonal level in the lower jaw.

Adapter, narrow

Width: 14 mm

Adapter, wide

Width: 18 mm

600-003-00	10 pieces
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600-004-00	10 pieces
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Locating Template

(Schaneng)

Made of stainless steel

The locating template supplied with the system ensures that the guide ridge slides properly on the lingual plate at a 60° angle.

600-005-00	1 piece
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Expansion Screw for Split Activator

For separate expansion of upper and lower arches. Arrow indicating the opening direction.

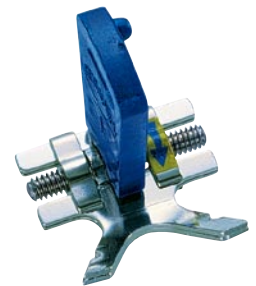
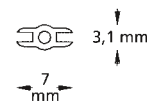
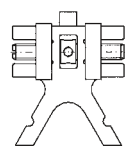
Maximum expansion: 7 mm

4 x 1/4 turn = 0.80 mm

600-610-00	1 piece
600-610-30	10 pieces

CE

→ 14,5 mm →



Norwegian Plate Screw

(Weise)

Sturdy screw for Norwegian plates and activators. Arrow indicating the opening direction.

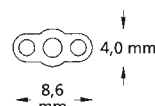
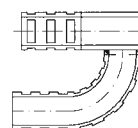
Maximum expansion: 5 mm

4 x 1/4 turn = 0.90 mm

603-000-00	1 piece
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CE

→ 14,0 mm →



Special Screws



602-806-10	1 piece
602-806-30	10 pieces

CE 0483

Variety Expansion Screw

Screw with straight retention legs

For the fixed appliance technique. Can be widely used in the upper and lower jaw, for distalisation, mesialisation of posterior teeth, or for osseous distraction in the lower jaw. Also for palatal expansion.

- Small dimensions with maximum expansion
- Solder free
- Break resistant retention legs and stable guidance throughout the entire expansion
- The integrated spindle friction prevents unwanted turning back
- Permanently laser marked arrow on the body of the screw indicates the opening direction and maximum expansion
- Screw can be tied down once desired expansion has been reached

With Safety Key

Screw: 9.6 mm

Maximum expansion: 12 mm

4 x 1/4 turn = 0.80 mm



602-809-10	1 piece
602-809-30	10 pieces

CE 0483

Variety SP (small palate) Expansion Screw

Screw with straight retention legs

For the fixed appliance technique. Can be widely used in the upper and lower jaw, for distalisation, mesialisation of posterior teeth, or for osseous distraction in the lower jaw. Also for early palatal expansion.

- Especially suitable for very narrow jaws
- Makes it possible to bend the retention legs very close to the screw body
- Small dimensions with maximum expansion
- Solder free
- Break resistant retention legs and stable guidance throughout the entire expansion
- The integrated spindle friction prevents unwanted turning back
- Permanently laser marked arrow on the body of the screw indicates the opening direction and maximum expansion
- Screw can be tied down once desired expansion has been reached

With Safety Key

Screw: 9.6 mm

Maximum expansion: 12 mm

4 x 1/4 turn = 0.80 mm

Titanium Hyrax® Maxi - 12

Special Expansion Screw with straight retention legs made of pure titanium
New improved quality

For mid-palatal suture separations by means of fixed appliances without the need for acrylic plates. Can be laser welded with titanium framework or Titanium Direct Bond Pads REF 799-210-00.

With Safety Key

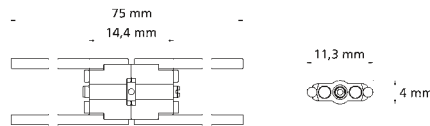
Screw: 14.4 mm

Maximum expansion: 12 mm

4 x 1/4 turn = 0.80 mm

602-824-10	1 piece
602-824-30	10 pieces

CE 0483



Titanium Direct Bond Pads

Anatomically contoured.

The titanium bonding bases are laser structured for the direct bond technique, specifically for the direct bonding of RPE appliances in conjunction with the Titanium Hyrax® Titanium Maxi - 12.

799-210-00	10 pieces
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CE 0483



Hyrax® Mini - 7

Special Expansion Screw with straight retention legs
New improved quality

For mid-palatal suture separations by means of fixed appliances without the need for acrylic plates.

- Built-in stops prevent the screws from coming apart once maximum expansion has been obtained
- Small dimensions with maximum expansion
- Solder free
- Break resistant retention legs, stable guidance throughout complete expansion
- The integrated spindle friction prevents unwanted turning back
- Permanently laser marked arrow on the body of the screw indicates the opening direction and maximum expansion
- Screw can be tied down once desired expansion has been reached

With Safety Key

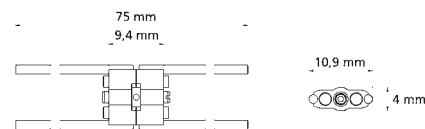
Screw: 9.4 mm

Maximum expansion: 7 mm

4 x 1/4 turn = 0.80 mm

602-816-10	1 piece
602-816-30	10 pieces

CE 0483

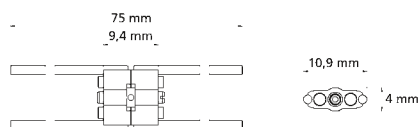


Special Screws



602-817-10	1 piece
602-817-30	10 pieces

CE 0483



Hyrax® Mini - 7

Special Expansion Screw with bent retention legs

New improved quality

For mid-palatal suture separations by means of fixed appliances without the need for acrylic plates.

- Built-in stops prevent the screws from coming apart once maximum expansion has been obtained
- Small dimensions with maximum expansion
- Solder free
- Break resistant retention legs, stable guidance throughout complete expansion
- The integrated spindle friction prevents unwanted turning back
- Permanently laser marked arrow on the body of the screw indicates the opening direction and maximum expansion
- Screw can be tied down once desired expansion has been reached

With Safety Key

Screw: 9.4 mm

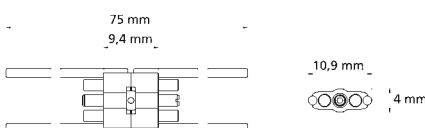
Maximum expansion: 7 mm

4 x 1/4 turn = 0.80 mm



602-820-10	1 piece
602-820-30	10 pieces

CE 0483



Hyrax® Mini - 12

Special Expansion Screw with straight retention legs

New improved quality

For mid-palatal suture separations by means of fixed appliances without the need for acrylic plates.

- Built-in stops prevent the screws from coming apart once maximum expansion has been obtained
- Small dimensions with maximum expansion
- Solder free
- Break resistant retention legs, stable guidance throughout complete expansion
- The integrated spindle friction prevents unwanted turning back
- Permanently laser marked arrow on the body of the screw indicates the opening direction and maximum expansion
- Screw can be tied down once desired expansion has been reached

With Safety Key

Screw: 9.4 mm

Maximum expansion: 12 mm

4 x 1/4 turn = 0.80 mm

Hyrax® Mini - 12

Special Expansion Screw with bent retention legs

New improved quality

For mid-palatal suture separations by means of fixed appliances without the need for acrylic plates.

- Built-in stops prevent the screws from coming apart once maximum expansion has been obtained
- Small dimensions with maximum expansion
- Solder free
- Break resistant retention legs, stable guidance throughout complete expansion
- The integrated spindle friction prevents unwanted turning back
- Permanently laser marked arrow on the body of the screw indicates the opening direction and maximum expansion
- Screw can be tied down once desired expansion has been reached

With Safety Key

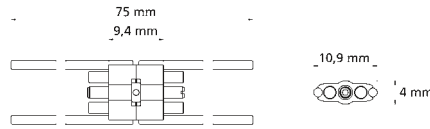
Screw: 9.4 mm

Maximum expansion: 12 mm

4 x 1/4 turn = 0.80 mm

602-821-10	1 piece
602-821-30	10 pieces

CE 0483



Hyrax® Medium - 10

Special Expansion Screw with straight retention legs

New improved quality

For mid-palatal suture separations by means of fixed appliances without the need for acrylic plates.

- Built-in stops prevent the screws from coming apart once maximum expansion has been obtained
- Small dimensions with maximum expansion
- Solder free
- Break resistant retention legs, stable guidance throughout complete expansion
- The integrated spindle friction prevents unwanted turning back
- Permanently laser marked arrow on the body of the screw indicates the opening direction and maximum expansion
- Screw can be tied down once desired expansion has been reached

With Safety Key

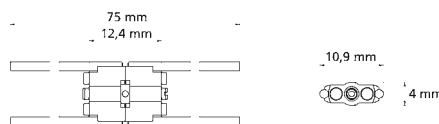
Screw: 12.4 mm

Maximum expansion: 10 mm

4 x 1/4 turn = 0.80 mm

602-818-10	1 piece
602-818-30	10 pieces

CE 0483

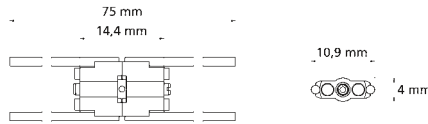


Special Screws



602-822-10	1 piece
602-822-30	10 pieces

CE 0483



Hyrax® Maxi - 12

Special Expansion Screw with straight retention legs

New improved quality

For mid-palatal suture separations by means of fixed appliances without the need for acrylic plates.

- Built-in stops prevent the screws from coming apart once maximum expansion has been obtained
- Small dimensions with maximum expansion
- Solder free
- Break resistant retention legs, stable guidance throughout complete expansion
- The integrated spindle friction prevents unwanted turning back
- Permanently laser marked arrow on the body of the screw indicates the opening direction and maximum expansion
- Screw can be tied down once desired expansion has been reached

With Safety Key

Screw: 14.4 mm

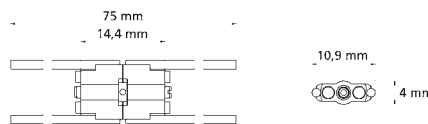
Maximum expansion: 12 mm

4 x 1/4 turn = 0.80 mm



602-823-10	1 piece
602-823-30	10 pieces

CE 0483



Hyrax® Maxi - 12

Special Expansion Screw with bent retention legs

New improved quality

For mid-palatal suture separations by means of fixed appliances without the need for acrylic plates.

- Built-in stops prevent the screws from coming apart once maximum expansion has been obtained
- Small dimensions with maximum expansion
- Solder free
- Break resistant retention legs, stable guidance throughout complete expansion
- The integrated spindle friction prevents unwanted turning back
- Permanently laser marked arrow on the body of the screw indicates the opening direction and maximum expansion
- Screw can be tied down once desired expansion has been reached

With Safety Key

Screw: 14.4 mm

Maximum expansion: 12 mm

4 x 1/4 turn = 0.80 mm

Piston Spring Screws, Assortment

Complete assortment of piston spring screws and accessories.

Piston spring screws for the movement of individual teeth. These screws exert a constant, elastic and easily controllable pressure on the tooth to be moved. The compact size allows them to be easily built into appliances.

Treatment is started with the 4 mm screw, which is exchanged for the 6 mm screw and finally the 8 mm screw as the tooth in question is moved.

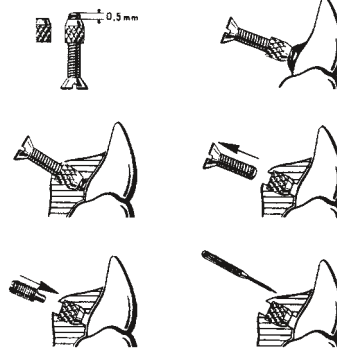
Contents:

- 10 x Piston spring screws, length 4 mm
REF 609-004-00
- 10 x Piston spring screws, length 6 mm
REF 609-006-00
- 10 x Piston spring screws, length 8 mm
REF 609-008-00
- 10 x Positioning screws
REF 609-100-00
- 10 x Serrated housing nuts
REF 609-200-30
- 1 x Reamer REF 609-300-00
- 1 x Screw driver REF 609-400-00
- 1 x Instructions

4 x 1/4 turn = 0.35 mm

609-500-00	1 Assortment
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CE



Piston Spring Screws

For the movement of individual teeth. These screws exert a constant, elastic and easily controllable pressure on the tooth to be moved. Their compact size allows them to be easily built into appliances.

4 x 1/4 turn = 0.35 mm

Length: 4 mm

4 x 1/4 turn = 0.35 mm

Length: 6 mm

4 x 1/4 turn = 0.35 mm

Length: 8 mm

609-004-00	10 pieces
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CE



◀ 4 mm ▶



609-006-00	10 pieces
------------	-----------

CE



◀ 6 mm ▶



609-008-00	10 pieces
------------	-----------

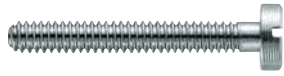
CE



◀ 8 mm ▶

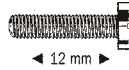


Accessories



609-100-00

10 pieces



◀ 12 mm ▶

Positioning Screw

For piston spring screws.

To position the piston spring screw into the acrylic.

Length: 12 mm



609-200-30

10 pieces

CE



◀ 3 mm ▶

Serrated Housing Nut

For piston spring screws.

To position into acrylic or to weld onto wire elements.

Length: 3 mm



609-300-00

1 piece

Reamer

For piston spring screws.



609-400-00

1 piece

Screw Driver

For piston spring screws.

To activate the piston spring screw.

Arrows to Indicate the Opening Direction

For Expansion Screws.

Color: yellow

611-130-00	50 pieces
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CE



Color: white

611-131-00	50 pieces
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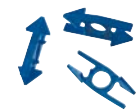
CE



Color: pearl-blue

611-132-00	50 pieces
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CE



Universal Bending Key

Easy bending of the retention legs of all Hyrax®, Variety and Titanium Hyrax® screws without the use of any additional pliers (leverage principle).

611-122-00	1 piece
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Safety Key

Can be used with all Dentaurem Hyrax® and Variety screws. For safe activation of the expansion screws by the patient in Hyrax® and Variety fixed appliances.

611-120-01	10 pieces
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CE



Expansion Screw Key

Straight, small, standard

Can be used with all Dentaurem expansion screws. Stainless steel-rustfree. To activate all expansion screws in removable appliances. Outside of the mouth.

611-115-00	1 piece
611-115-30	10 pieces
611-115-60	100 pieces

CE



Expansion Screw Key

Large, with elongated handle

Can be used with all Dentaurem expansion screws. Stainless steel-rustfree. To activate all expansion screws in removable appliances. Outside of the mouth.

611-116-00	1 piece
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CE



Wedge Ruler

Can be sterilized

For checking the opening of appliances.

043-720-00	1 piece
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Accessories



612-000-00	1 Set
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CE

Expansion Screw Sample Kit

Filled with 29 expansion screws that are currently available, plus 3 expansion screw keys.

1 Set = 32 pieces



163-602-01	10 pieces
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Appliance Container, Mini

The mini version is especially suitable for single appliances and oral screens, such as the Ulmer Model.

Made of durable plastic.

Color: pearl-blue



163-603-01	10 pieces
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Color: neon-pink



163-604-01	10 pieces
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Color: neon-yellow



163-605-01	10 pieces
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Color: neon-orange



163-606-01	10 pieces
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Color: neon-green

Appliance Container, Maxi

The maxi version is especially suitable for bimaxillary appliances, such as activator, bionator.

Made of durable plastic.

Color: pearl-blue

163-702-01

10 pieces



Color: neon-pink

163-703-01

10 pieces



Color: neon-yellow

163-704-01

10 pieces



Color: neon-orange

163-705-01

10 pieces



Color: neon-green

163-706-01

10 pieces



Color: black

163-707-01

10 pieces



Color: white-flecked

163-708-01

10 pieces



Accessories



163-802-01

10 pieces

Appliance Container, Magnum

The magnum version is especially suitable for extremely large Fraenkel appliances, orthodontic appliances for adult treatment, or dentures.

Made of durable plastic.

Color: pearl-blue



163-805-01

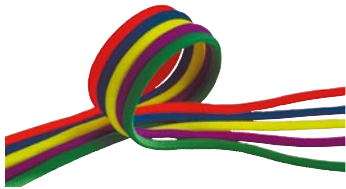
10 pieces

Appliance Container „Football“

Made of durable plastic.

Universal size for removable upper appliances, bimaxillary appliances and function regulators.

Color: black-white



163-800-00

25 pieces

Cords for Appliance Containers

For attachment to belt.

Color: neon



161-911-00	1 Sortiment
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CE

Orthocryl® Assortment

Consisting of:

- 1 kg Orthocryl®-Powder (polymer), clear REF 160-112-00
- 500 ml Orthocryl®-Liquid (monomer), transparent pink REF 161-300-00
- 1000 ml Separating Medium REF 162-800-00
- 2 x Spray Bottle REF 162-100-00
- 1 x Measuring Cup REF 162-200-00
- 1 x Funnel REF 162-600-00
- 1 x Spray Nozzle for Powder (polymer) REF 162-751-00
- 1 x Spray Nozzle for Liquid (monomer) REF 097-003-50 (10 pieces)



160-501-00	200 g + 100 ml
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CE

Orthocryl®

Small pack powder (polymer) and liquid (monomer)

Color: transparent pink



160-502-00	200 g + 100 ml
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CE

Color: clear



160-600-00	1 Assortment
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CE

Orthocryl® Assortment "The multicolored palette"

Consisting of:

- 1 kg Orthocryl®-Powder (polymer), clear REF 160-112-00 and 4 x 250 ml differently colored liquids (monomers):
- 1 x REF 161-127-00, red
 - 1 x REF 161-128-00, green
 - 1 x REF 161-129-00, blue
 - 1 x REF 161-130-00, yellow
 - 1 x REF 162-600-00 Funnel

Orthocryl® Neon Assortment

Brightly colored orthodontic acrylics

Newly developed Orthocryl®-Powder (polymer) for producing brightly colored orthodontic appliances. Easy processing, using both the doughing and the salt-and-pepper techniques in conjunction with the clear Orthocryl®-Liquid (monomer) REF 161-100-00 / 161-150-00. Disco glitter can also be used to enhance the effect of the colors.

Note:

When using the salt-and-pepper technique, the colors appear to have a marbled effect, especially green and blue. By using the doughing technique, the colors are mixed thoroughly resulting in more even and brighter colors.

Contents of Assortment:

- 1 x neon orange, 200 g REF 160-006-00
- 1 x neon yellow, 200 g REF 160-007-00
- 1 x neon blue, 200 g REF 160-008-00
- 1 x neon hot pink, 200 g REF 160-009-00
- 1 x neon green, 200 g REF 160-010-00
- 1 x Orthocryl®-Liquid (monomer), 500 ml REF 161-100-00
- 6 x Empty Spray Bottles REF 162-100-00

160-000-00	1 Assortment
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CE



Orthocryl®

Powder (polymer)

Cold cured acrylic resin permits the simple and economical fabrication of orthodontic appliances. Especially suited for the spray-on (salt+pepper) technique. Also, very suitable for the doughing technique.

Color: clear

160-112-00	1 kg
160-212-00	10 kg

CE



Orthocryl® EQ

Powder (polymer)

Cold cured acrylic resin permits the simple and economical fabrication of orthodontic appliances. Especially suited for the doughing technique. Also, very suitable for the spray-on (salt+pepper) technique.

Color: clear

160-300-00	1 kg
160-301-00	10 kg

CE





160-006-00	200 g
160-001-00	1 kg

CE



Orthocryl® Neon

Brightly colored orthodontic acrylics Powder (Polymer) - Single Colors

Newly developed Orthocryl®-Powder (polymer) for producing brightly colored orthodontic appliances. Easy processing, using both the doughing and the salt-and-pepper techniques in conjunction with the clear Orthocryl®-Liquid (monomer) REF 161-100-00 / 161-150-00. Disco glitter can also be used to enhance the effect of the colors.

Note:

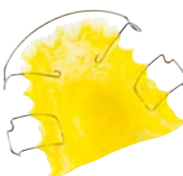
When using the salt-and-pepper technique, the colors appear to have a marbled effect, especially green and blue. By using the doughing technique, the colors are mixed thoroughly resulting in more even and brighter colors.

Color: neon orange



160-007-00	200 g
160-002-00	1 kg

CE



Color: neon yellow



160-008-00	200 g
160-003-00	1 kg

CE

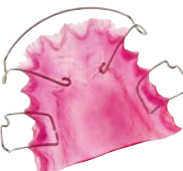


Color: neon blue



160-009-00	200 g
160-004-00	1 kg

CE

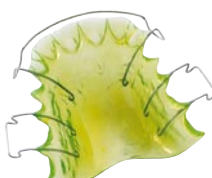


Color: neon hot pink



160-010-00	200 g
160-005-00	1 kg

CE



Color: neon green

Orthocryl®

Liquid (monomer)

Cold cured acrylic resin permits the simple and economical fabrication of orthodontic appliances.

Color: clear

161-100-00	500 ml
161-150-00	1000 ml

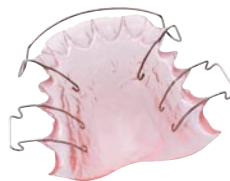
CE



Color: transparent pink

161-300-00	500 ml
161-350-00	1000 ml

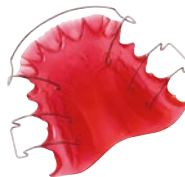
CE



Color: red

161-127-00	250 ml
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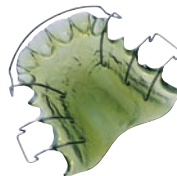
CE



Color: green

161-128-00	250 ml
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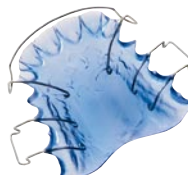
CE



Color: blue

161-129-00	250 ml
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CE



Color: yellow

161-130-00	150 ml
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CE

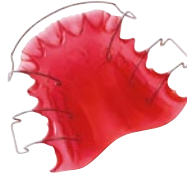


Orthodontics



161-620-00	100 ml
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CE



Orthocryl®

Color Concentrate

For tinting clear Orthocryl® Liquid (monomer) REF 161-100-00 / 161-150-00.

Complete with one dispensing pipette

Mixing ratio

Color Concentrate : Orthocryl® Liquid (monomer) clear

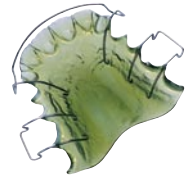
approximately 1:50 to 1:10

Color: red



161-621-00	100 ml
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CE

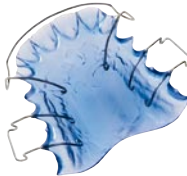


Color: green



161-622-00	100 ml
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CE



Color: blue



161-623-00	100 ml
------------	--------

CE



Color: yellow



161-624-00	100 ml
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CE



Note:

A true black color cannot be achieved.

Color: black-eggplant

Orthocryl® Disco Glitter

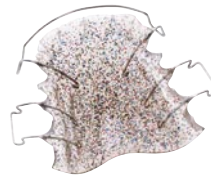
For coloring the removable appliance.
The glitter is simply added as desired to the Orthocryl®-Powder (polymer) to give the appliance an attractive lustre.

No change in the processing of Orthocryl® is necessary. The appliances can be finished and polished without difficulty.

Color: iris

161-605-00	50 g
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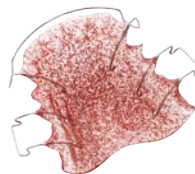
CE



Color: red

161-606-00	50 g
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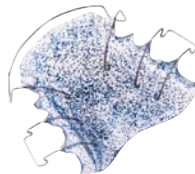
CE



Color: blue

161-607-00	50 g
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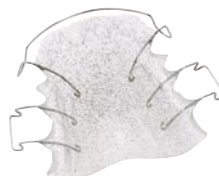
CE



Color: silver

161-608-00	50 g
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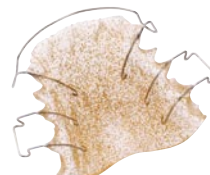
CE



Color: gold

161-609-00	50 g
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CE



Color: mother of pearl

161-611-00	50 g
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CE



Accessories



160-100-00	1 Assortment
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CE

Novel Designs Assortment

For placing in orthodontic appliances. Life-like and comical designs that are incorporated into the Orthocryl®-acrylic, giving every appliance the personal touch.

Availability:

Assortment consists of 20 individual designs = 400 pieces, plus tweezers.



160-100-01	20 pieces
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CE

Novel Designs

For placing in orthodontic appliances. Life-like and comical designs that are incorporated into the Orthocryl®-acrylic, giving every appliance the personal touch.

1. Design: Crocodile



160-100-02	20 pieces
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CE

2. Design: Frog



160-100-04	20 pieces
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CE

3. Design: Parrot



160-100-05	20 pieces
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CE

4. Design: Ladybug



160-100-06	20 pieces
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CE

5. Design: Dragon



160-100-07	20 pieces
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CE

6. Design: Fish



160-100-09	20 pieces
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CE

7. Design: Formula 1 (Indy Racecar)



160-100-10	20 pieces
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CE

8. Design: Elephant

Novel Designs

For placing in orthodontic appliances. Life-like and comical designs that are incorporated into the Orthocryl®-acrylic, giving every appliance the personal touch.

9. Design: Heart

160-100-11	20 pieces
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CE



10. Design: Duck

160-100-12	20 pieces
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CE



11. Design: Dinosaur

160-100-13	20 pieces
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CE



12. Design: Motorcycle

160-100-14	20 pieces
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CE



13. Design: Snail

160-100-15	20 pieces
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CE



13. Design: Snail

160-100-16	20 pieces
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CE



15. Design: Mushrooms

160-100-18	20 pieces
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CE



16. Design: Car

160-100-19	20 pieces
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CE



17. Design: Raven

160-100-27	20 pieces
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CE



Accessories



160-100-29	20 pieces
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CE

KFO-Einlegemotive

For placing in orthodontic appliances. Life-like and comical designs that are incorporated into the Orthocryl®-acrylic, giving every appliance the personal touch.

18. Design: Devil



160-100-31	20 pieces
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CE

19. Design: Soccer Player



160-100-32	20 pieces
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CE

20. Design: Mouse



160-100-28	20 pieces
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CE

21. Design: Spider



160-100-30	20 pieces
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CE

22. Design: Graffiti



160-100-33	20 pieces
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CE

23. Design: Beaver



160-100-34	20 pieces
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CE

24. Design: Dolphin



160-100-35	20 pieces
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CE

25. Design: Horse



160-100-36	2 x 10 pieces
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CE

26. Design: Football

This design contains two different sizes.

Spray Bottle

For Powder (polymer) and Liquid (monomer)
100 ml.

162-100-00

1 piece



Spray Nozzle for Orthocryl®-Liquid (Monomer)

ø 0.4 mm

097-003-50

10 pieces



Spray Nozzle for Orthocryl®-Powder (Polymer)

162-751-00

1 piece



Mixing Bowls made of Silicon

Flexible, with suction base.
For all mixing jobs in the office and laboratory. Do not use with silicone materials.

5 ml

162-501-00

3 pieces



25 ml

162-502-00

1 piece



75 ml

162-503-00

1 piece



Funnel

162-600-00

1 piece



Measuring Beaker

162-200-00

1 piece



Dispensing pipette

For Orthocryl® color concentrates.

162-101-00

10 pieces



Accessories



162-800-00	1000 ml
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Separating Medium

For Plaster Models.

Color: pink



Size S	162-907-00	100 pieces
Size M	162-908-00	100 pieces
Size L	162-909-00	100 pieces

Dermatril® Disposable rubber gloves

For protection during work with Polymethylmethacrylate such as Orthocryl®.

Made from special-Nitrile, free from powder and natural latex.



119-150-00	25 sheets
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Modeling Wax

For construction bites, etc. Well adaptable, very easy to model.

Melting point: 64 °C / 172 °F

Size: 80 x 175 mm

Thickness: 1.5 mm

Color: pink



120-170-00	50 g
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Thermo-wax®

Heat resistant blocking wax.

For covering springs used in the Orthocryl®-Technique. Prevents acrylic from becoming milky in appearance.

Dripping point: 90 °C

Color: pink

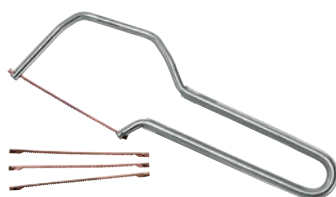


122-300-00	60 g
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Sticky Wax

Melting Point: 72 °C / 162 °F

Color: red



180-702-00	1 piece
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Saw

For orthodontic appliance construction.

Small saw with replaceable blades.

Saw and 3 replaceable blades.



180-703-00	5 pieces
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Saw Blades

For Saw REF 180-702-00.

Length: 70 mm

DubliGel

Specialized duplicating material for secondary model in plaster.

- Extremely clean duplications with all types of plaster.
- great value for money
- can be melted up to 12 times

Melting point 93 °C/199 °F
 Pouring temp. 50 °C/122 °F
 Gelation time 30–45 min

Color: pink

165-501-00	5 kg
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ecosil silicone

Additionsvernetztes two component silicone with excellent value for money

- Good color contrast
 - Green color prevents mixing errors
- Extremely thin flowing consistency
 - Highly accurate duplicate reproduction
- Long working time
 - can be used to re-cast models many times
- Medium Shore hardness (19)
 - Use also with ring free duplicating systems
- Very quick elastic recovery
 - Cuts down model casting time

Technical data	Component A	Component B
	(Catalyst)	
Mixing ratio	1	: 1
Viscosity at 23°C/73 °F mPAS	2000	2000
Density kg/m ³	1300	1300
Processing times	6–8 Minuten	
Release from mould	30 Minuten	
Shore hardness	18–20	
Elastic recovery after 30 s	99,9 %	

Component A	108-703-00	1 kg
Component B	108-704-00	1 kg
Component A	108-705-00	5 kg
Component B	108-706-00	5 kg



Tap

for 5 kg canister.

108-716-00	1 piece
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070-000-00

1 piece

Polyclav®

Polymerization pressure vessel for the orthodontic acrylic technique.

Pressure hose not included.

With safety valve.

Capacity: 4 litres



070-700-00

1 piece

Pressure Hose

For Polyclav® REF 070-000-00.



070-900-00

1 piece

Heating Plate

For Polyclav® REF 070-000-00.

Thermostatically controlled at 40 °C / 104 °F.
230 V~ / 50 Hz / 125 W

Color: RAL 9001 cream white



072-004-00

1 piece

FKO-Split-Post Fixator

(Gordon)

This split-post fixator is designed for precise model positioning and holding. New - now with small fixation screws. Special conical arms allow for the removal and replacement of models.



072-006-00

1 piece

Expansion Kit

For FKO-Split-Post Fixator.

To produce a horizontally split functional appliance, as well as correct positioning of the models parallel to the occlusal plane. The horizontal dividing mirror is made of highly corrosion resistant stainless steel, thus producing a smooth and shiny acrylic surface when applied to the upper and lower jaws. The appliance does not have to be touched up after polymerization.



980-332-00

1 piece

Orthocryl® color plate

For the patient's color choice.

Measurements: 28 x 20,5 cm

Premium-Line Pliers



Premium quality – Premium function

Made in Germany

Premium quality

Highly experienced craftsmanship and state-of-the-art machinery have been used to produce these high quality pliers which remain true to the saying "Made in Germany". For this reason, Dentaurem's Premium-Line Pliers are extra long-lasting.

Cutting inserts made from a special alloy

Extremely durable working ends

A high quality, special alloy is used to produce the cutting inserts and makes them extra hard, extremely tough and absolutely resistant to corrosion. This also makes them extraordinarily durable even throughout heavy use.



10 Year Guarantee!

Decades of orthodontic experience

Easy handling – ergonomically designed

Dentaurum has decades of experience as the leading company in orthodontic products, and this is reflected in the Premium-Line Pliers. All pliers are optimally suited for orthodontic wires and materials. The edges are ergonomically rounded making the pliers very safe, precise and easy to use.

Sophisticated manufacturing technique

No loosening of the cutting inserts

Extensive experience and an ingenious production method have produced an excellent anchorage construction to retain the cutting inserts on the pliers' body. Thanks to this invention, as long as the pliers are always used in an appropriate manner, it is practically impossible for the cutting inserts to fall out.

Reliable service

Perfect function for many years

Depending on the model, Premium-Line Pliers can be sent to the Dentaurum repair service for resharpenering or replacement. We guarantee that this maintenance is carried out reliably and professionally and at a fair price. Please contact us for this service.

Easy care*

Long-lasting

To clean Dentaurum's Premium-Line Pliers, any standard disinfecting or sterilizing procedure can be used in accordance with the manufacturer's instructions. If the pliers are oiled on a regular basis, this easy and uncomplicated treatment will increase their life span and functionality. We recommend Dentaurum's corrosion protector (REF 055-200-00).

10 Year Guarantee**

An exceptional value

Dentaurum Premium-Line Pliers are the only pliers available with a 10 year guarantee. This ensures maximum reliability and minimum risk for orthodontists and patients.

* Proper maintenance is an important guarantee factor. Our instructions on maintenance and care of pliers can be found on page 245.

** The 10 year guarantee is on material and workmanship, loosening of cutting inserts, breakage and corrosion of pliers' body, providing the instruments have been used correctly and properly maintained.

Premium-Line Pliers



001-002-00

1 piece

Nance Loop Closing Pliers

Sterilizable

For bending of stop loops and as special pliers for Adams clasps.

For wires up to \varnothing 0.7 mm / 28, hard.

Premium-Line · 10 Year Guarantee



003-139-00

1 piece

Angle Wire Bending Pliers, Standard

Sterilizable

Sturdy constructed plier with a cone and pyramid shaped beak.

For wires up to \varnothing 0.7 mm / 28, hard.

Premium-Line · 10 Year Guarantee



004-139-00

1 piece

Angle Wire Bending Pliers

Sterilizable

Sturdy constructed plier with a cone and pyramid shaped beak. Inserts made of hard metal.

For wires up to \varnothing 0.7 mm / 28, hard.

Premium-Line · 10 Year Guarantee



003-053-00

1 piece

Loop Forming Pliers, Medium

Sterilizable

For bending small springs and loops.

For wires up to \varnothing 0.7 mm / 28, hard.

Premium-Line · 10 Year Guarantee



003-233-00

1 piece

Loop Forming Pliers, Maxi

Sterilizable

These sturdy pliers have one round and one concave beak for heavier wires, such as space maintainers, etc.

For wires up to \varnothing 0.8 mm / 32, hard.

Premium-Line · 10 Year Guarantee



001-650-00

1 piece

Ruhland Loop Forming Pliers, Magnum

Sterilizable

To bend coffin springs, labial arches, loops, etc.

For wires up to \varnothing 1.1 mm / 44, hard.

Premium-Line · 10 Year Guarantee



003-515-00

1 piece

Adams Pliers, Medium

Sterilizable

With two smooth, rectangular beaks.

For wires up to \varnothing 0.7 mm / 28, hard.

Premium-Line · 10 Year Guarantee

Length: 12 cm / 4 3/4"

Adams Pliers, Medium

Sterilizable

With two smooth, rectangular beaks. Inserts made of hard metal.

For wires up to \varnothing 0.7 mm / 28, spring hard.

Premium-Line · 10 Year Guarantee

Length: 12 cm / 4 3/4"

004-515-00	1 piece
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Adams Pliers, Maxi

Sterilizable

With two smooth, rectangular beaks.

For wires up to \varnothing 0.8 mm / 32, hard.

Premium-Line · 10 Year Guarantee

Length: 14.5 cm / 5 3/4"

003-094-00	1 piece
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Adams Pliers, Medium

Sterilizable

With one smooth, rectangular and one smooth, rounded beak.

For wires up to \varnothing 0.7 mm / 28, hard.

Premium-Line · 10 Year Guarantee

Length: 14 cm / 5 1/2"

003-516-00	1 piece
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Adams Pliers, Maxi

Sterilizable

With one smooth, rectangular and one smooth, rounded beak. Inserts made of hard metal.

For wires up to \varnothing 0.8 mm / 32, hard.

Premium-Line · 10 Year Guarantee

Length: 16 cm / 6 3/4"

004-095-00	1 piece
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Wire Bending Pliers, Wide

Sterilizable

Serrated tips.

Suitable for activating finger springs.

For wires up to \varnothing 0.8 mm / 32, hard.

Premium-Line · 10 Year Guarantee

033-452-00	1 piece
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Wire Bending Pliers, Maxi

Sterilizable

For bending wires up to \varnothing 0.9 mm / 36, hard.

For cutting wires up to \varnothing 0.7 mm / 28, hard.

With hard metal inserts replaceable by manufacturer.

Premium-Line · 10 Year Guarantee

013-522-00	1 piece
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Universal Wire Bending Pliers

Sterilizable

With serrated tips and guiding grooves.

For wires up to \varnothing 0.8 mm / 32, hard.

Premium-Line · 10 Year Guarantee

003-290-00	1 piece
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Premium-Line Pliers



004-455-00

1 piece

Flat Nose Pliers

Sterilizable

Smooth faces with guiding grooves. Inserts made of hard metal.

For wires up to \varnothing 0.7 mm / 28, spring hard.

Premium-Line · 10 Year Guarantee



035-455-00

1 piece

Pointed Beak Pliers

Sterilizable

Serrated faces with guiding grooves.

Fine pointed beaks.

For wires up to \varnothing 0.7 mm / 28, hard.

Premium-Line · 10 Year Guarantee



012-074-00

1 piece

Young Loop Bending Pliers

Sterilizable

Universal pliers for different size loops.

Ideal for labial arches.

For wires up to \varnothing 0.7 mm / 28, hard.

Premium-Line · 10 Year Guarantee



003-201-00

1 piece

Aderer 3-Prong Pliers, Mini

Sterilizable

For wires up to \varnothing 0.7 mm / 28, hard.

Premium-Line · 10 Year Guarantee

Length: 12.5 cm / 5"



003-200-00

1 piece

Aderer 3-Prong Pliers, Medium

Sterilizable

For wires up to \varnothing 0.9 mm / 36, hard.

Premium-Line · 10 Year Guarantee

Length: 13 cm / 5 1/4"



003-202-00

1 piece

Aderer 3-Prong Pliers, Maxi

Sterilizable

For wires up to \varnothing 1.5 mm / 59, hard.

Premium-Line · 10 Year Guarantee

Length: 15.5 cm / 6 1/4"



012-520-00

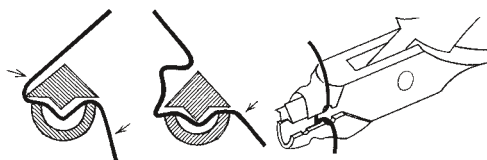
1 piece

Arrow Clasp Former

Sterilizable

For wires up to \varnothing 0.7 mm / 28, hard.

Premium-Line · 10 Year Guarantee



Premium-Line Pliers

Arrow Clasp Bending Pliers

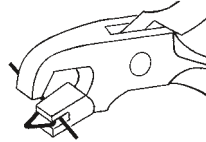
Sterilizable

For wires up to \varnothing 0.7 mm / 28, hard.

Premium-Line · 10 Year Guarantee

012-521-00

1 piece



Face Bow Bending / Cutting Pliers, Magnum

Sterilizable

Ideal for bending and cutting the outer bows of a face bow.

For wires up to \varnothing 1.8 mm / 71.

Premium-Line · 10 Year Guarantee

003-180-00

1 piece



Adams Clasp Bending Pliers

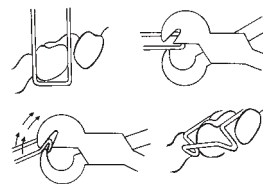
Can be disinfected but not sterilized.

Special pliers for easy forming of Adams Clasps in one step.

For wires up to \varnothing 0.7 mm / 28, hard.

012-523-00

1 piece



Heavy Gauge Side Cutter

Can be disinfected but not sterilized.

Little force required for cutting through large size wires due to special design.

For wires up to \varnothing 1.3 mm / 51, hard.

044-177-00

1 piece



Scissors, Straight

Sterilizable

For cutting thin metal bands.

007-024-00

1 piece



Scissors, Curved

Sterilizable

For cutting thin metal bands.

008-025-00

1 piece



Instruments



000-730-00	1 piece
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CE

Mosquito forceps, without hook

Sterilizable

For placing Dentalastics® plastic ligatures.



260-300-04	1 piece
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Forceps with distance ring



260-301-02	1 piece
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Straddle forceps for crowns

with interchangeable diamond tips



260-301-12	2 pieces
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Replacement diamond tips

for REF 260-301-02



260-306-00	1 piece
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Forceps



260-300-02	1 piece
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Crown Master forceps



008-052-00	1 piece
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P. K. Thomas wax up tools

Length: 170 mm.
Stainless.



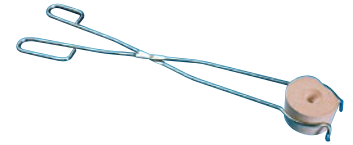
008-054-00	1 piece
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Length: 170 mm.
Stainless.

Muffle Tongs

For large and small casting rings.
Stainless.
Length: 56 cm

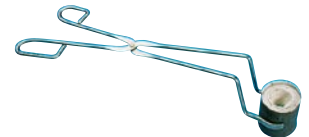
127-400-00	1 piece
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Model and Casting Ring Tongs

Angled jaws give more secure grip for investment casts and casting rings (Sizes 1/3/6).
Stainless.
Length: 36 cm

127-410-00	1 piece
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Corrosion Protection Oil for Pliers and Instruments

For instrument care before sterilization.

055-200-00	50 ml
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Stand for Wires and Pliers, combination

Made of clear acrylic.

With 6 tubes for straight wires. Do not use disinfectants containing ethanol or alcohol.

Height: Approx. 13 cm / 5 1/8"

Width: Approx. 18 cm / 7"

055-101-01	1 piece
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Stand for Pliers

Made of clear acrylic.

Do not use disinfectants containing ethanol or alcohol.

Length: 13 cm / 5 1/8", for 7 pliers

055-000-00	1 piece
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Length: 25 cm / 9 7/8", for 14 pliers

055-100-00	1 piece
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Modern Machinery



For professional Workmanship

High Standard of Quality

Certified Quality– made in Germany

Dentaurum equipment meets the highest demands on laboratory safety and robustness. Not only is functionality of great importance but also user comfort.

Flexibility is our Trump Card

Continuous in-house further development

Established technology is continuously re-adapted to meet growing requirements in dental technology. Within our internal construction and machine department the development engineers design and build practical new products according to customer requirements.

Hi-Tec for the Laboratory

State-of-the-art casting technology made simple for the laboratory

For many years now, Dentaureum has proven of a high degree of competence in casting technology, whether vacuum pressure casting machines, not just for casting titanium, or extremely compact high frequency casting machines.

Service

Maintenance friendly Machine Construction

Specially trained mechanics help sustain a professional machine management service. Maintenance contracts and a long term guarantee of spare parts, aid in preserving the machines, even when constantly in laboratory use.

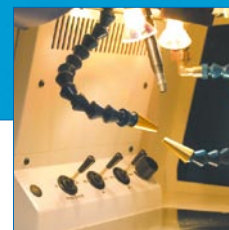
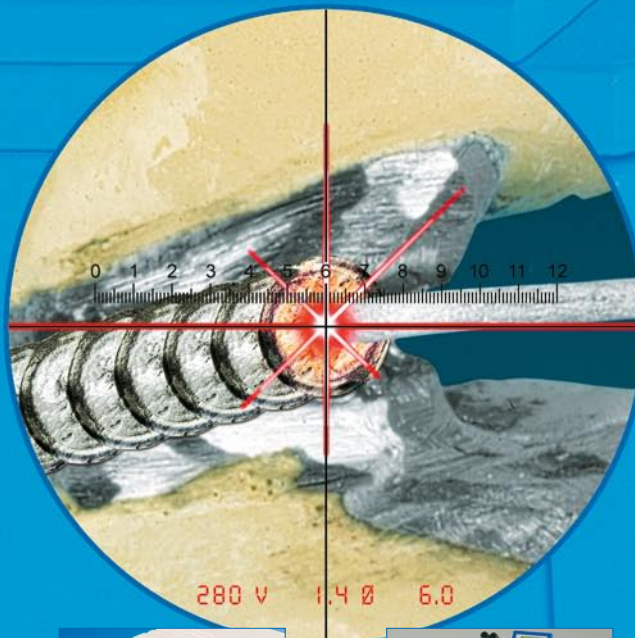
Knowing what really matters

Training where it is most needed

Complex technologies not only require the correct equipment but also the ability to operate them appropriately. Extensive training and initial machine supervision, such as with the titanium casting technique, make introduction easier.



Dentaurum Laser Technology



For professional welding in prosthetics

Laser welding – the modern joining technique

Clear cost efficiency due to considerable time savings

Laser welding allows more efficient working. In comparison with traditional soldering you save 80% of your time. You can carry out new fabrications and repair jobs better and faster by using a dental laser.

Highest degree of biocompatibility

The safety-plus for the patient

Due to their high susceptibility to corrosion biocompatibility in solder joints is rated rather low. This is the reason why metallurgists and toxicologists have lately taken a very critical stand towards the traditional soldering method. This problem is further aggravated by increasing occurrences of allergic reactions. By using the laser welding technique you can avoid this problem.

Highest degree of stability

Low propensity for repairs

In opposite to soldering laser welding produces an uniform, homogenous joining. Your laser welded joints therefore exhibit a higher degree of mechanical stress endurance, and last longer. Therefore, you provide your dentist with more security and better quality.

The broad spectrum of application

Soldering cannot produce such a quality

With laser welding entering into the field of dental fusing technique the spectrum of application is considerably improved and expanded. Now you can carry out complex jobs even with supraconstructions, without any problems. Use the laser also for the quick repair of small defects.

Whether you want to process precious metal alloys with a high gold content, alloys free of precious metals, or titanium, with the laser you cover the whole range of dental materials.

The ergonomics – extremely user friendly

Comfortable working even in long work sessions

All Dentaurem lasers are marked by their special ergonomic design. Working with the equipment becomes a relaxed and easy affair for you.

- All Dentaurem lasers exhibit their excellent ergonomics in the optimal inclination of the laser axis. Thereby you do not only sit relaxed at the microscope, but you can also hold the workpiece at an optimal angle.
- The laser optics are marked by exceptional in-depth sharpness. That means for you: The welding performance does not change, even if you do not adhere to the optimal welding plane.
- Due to the argon nozzle the workpiece is always flushed with argon. This ensures an oxidation free welding fusion with high stability.

The broad spectrum of Dentaurem laser equipment

You will find your optimum device for your individual needs

DESKTOP COMPACT

The value-for-money laser for every use

DESKTOP POWER

The high powered laser for all types of metallic joints on dental restorations

*** DL 3000**

The laser with built-in intelligence using Pulse Shape Preselection (PSP)

DESKTOP COMPACT



The value for money, desktop laser-welding unit for use in dental technical and orthodontic laboratories.

The Desktop Compact Laser is a very price reasonable, compact laser-welding unit. The energy and capacity of the Desktop Compact Laser enable all welding tasks to be completed of any type of weldable metal / alloy found in a dental laboratory. Even in the lower energy output range, the adjustments may be set exactly which makes the Desktop Compact also suitable for use in an orthodontic laboratory. The unit has a mechanically adjustable focus and 16 empty programming spaces.

Best working table height: 0.70 to 0.75 m

090-590-00	1 piece
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Advantages:

- Unbeatable value for money
- Suitable for both dental and orthodontic requirements
- Compact tabletop unit
- Ergonomic design
- Integrated mechanically adjustable focus
- 16 empty programmable spaces
- Integrated extraction (optional)

Further product informations:

Folder REF 989-357-20

Technical data

Average output	20 W
Peak pulse output	3 kW
Max. pulse energy	30 J
Pulse length	0.5 – 15 ms
Welding voltage	150 – 350 V
Max. power consumption/ stand by consumption	2000 W/120 W
Focussing range	0.2 – 2.0 mm
Single pulse/permanent pulse	both possible
Permanent pulse frequency	0.5 – 5 Hz
Focus adjustment	mechanical
Settings storage	16
Argon nozzle	2 flexible
Microscope	16x
Lighting	2x20 W
Dimensions (W x H x D)	550 x 460 x 800 mm
Weight	78 kg
Mains connection	200–230 V/50/60 Hz
Miscellaneous	Integrated extraction (optional)

Extraction

090-591-00	1 piece
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for Desktop Compact

Leica Ocular 21 B

090-593-00	1 Set
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for Desktop Compact



The Powerful Desktop Laser

Despite its compact design, the Desktop Power Laser has a high potential for achievement, and meets all conceivable expectations set by demanding dental technology. The Laser optics' high depth of sharpness within the working area, along with an ergonomic design suited to match normal working positions and object height, allow absolutely precise welding.

The various features such as the high performance reserves, the variable focus and the integrated pulse shaping, all aid in producing excellent welding results.



Advantages:

- Maximum pulse output 50 J, peak pulse capacity 4 kW
- Variable focus: from 0.2 to 2.5 mm diameter in 0.2 mm steps
- Optimised welding power through three material-specific pulse forms
- Fatigue during operation
- User-friendly, comfortable operation
- Integrated extraction unit

090-577-00	1 piece
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Further product informations:

Folder REF 989-357-20

Technical data

Average output	20 W
Peak pulse output	4 kW
Max. pulse energy	50 J
Pulse length	0.5 – 20 ms
Single pulse/permanent pulse	selectable
Permanent pulse frequency	0.5 – 10 Hz
Focussing range	0.2 – 2.5 mm, powered adjustment
Settings storage	20
Pulse shaping	integrated, 3 material-specific pulse shapes
Laser Crystal	Nd:Yag (Neodymium doped Yttrium-Aluminum-Garnet), pulsed
Wavelength	1064 nm
Integrated cooling system	2.5 l
Argon flushing	fixed and flexible argon nozzles
Extraction	integrated, adjustable extraction
Air nozzle	compressed-air nozzle in the chamber
Housing	ergonomic housing: the tilted laser axis and the placement of all controls within the working chamber reduce fatigue during operation
Microscope	Leica 16x
Dimensions (W x H x D)	640 x 465 x 882 mm
Weight	100 kg
Mains connection	240 V · 10 A · 50/60 Hz
Accessories	padded arm rests, cover, argon fittings all included



090-585-00	1 piece
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* DL 3000

The first generation of welders with PSP (Pulse Shape Preselection). You benefit from perfect welds without requiring extensive familiarization period.

Advantages:

- The optimum welding settings for 34 types of welding are set automatically
- The ideal pulse shape for all types of alloy is selected automatically
- Straightforward handling due to the innovative operator prompt feature: once the type of alloy and desired welding depth have been selected, PSP selects the optimum welding settings
- Exceptionally ergonomic: the laser axis is optimally inclined to guarantee that the user can sit relaxed. Large display and functional control panel at eye level
- The welding data is reflected into the optics to allow the user to concentrate on working
- A choice of 2 high quality microscopes – a Leica stereo microscope or Lynx® stereo dynascope – provides an optimum view
- Controllable fume exhauster with large micro-fine dust filter
- Integral compressed air nozzle

Further product informations:

Folder REF 989-357-20

Technical data

Average output	50 W
Peak pulse output	5 kW
max. pulse energy	55 J
Pulse length	0.5 – 20 ms
Focussing range	0.2 – 2.0 mm
Pulse shaping	4 settings for specific alloys and 4 programmable pulse shapes
Permanent pulse frequency	0.5–10 Hz
Settings storage	128
Dimensions (W x H x D)	550 x 1240 x 815 mm
Weight	approx. 110 kg
Mains connection	200–240 V, 50/60 Hz, 110 V optional

Lynx® Stereo Dynascope

090-584-00	1 piece
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Electrically adjustable stand

The answer to unsurpassed ergonomics

Advantages:

- This stand offers the user the best possible ergonomics.
- The electrically adjustable stand enables the technician to change to his or her comfort level, via a foot switch, within seconds. This offers the most comfortable viewing level, and assures full concentration on the laser work.
- The stand is designed to guarantee fatigue-free laser welding, even after extended periods of time.
- Applicable to Desktop Compact Laser or Desktop Power Laser

090-574-00	1 piece
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Technical data

Minimum working height	740 mm
Maximum working height	1090 mm
Operation	Integrated foot switch

OrthoPhaser®

Micro impulse welding unit

Advantages:

- comfortable working under the microscope
- integrated eye protection
- Bright illumination of the working area
- pre-programmed parameters
- individual parameter settings can be stored
- easy monitoring via LED
- User friendly design and compact construction
- Model: 230 V / 50 / 60 Hz
- Fine, delicate welding performance possible for orthodontic use
- Material preserving and bio compatible joining technique for almost all metal dental materials, including titanium

Argon fitting is not supplied with the OrthoPhaser®.

090-400-00	1 piece
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Technical data

Wattage	1.4 kW
Operating voltage	20 – 40 V
Non-productive voltage	40 V
max. load	2 s
Protective gas	Argon 99.996% (Argon 4.6)
max. gas pressure	10 bar
Weight	6.05 kg
Mains connection	230 V, 50/60 Hz +/- 15%

Accessories



528-210-00	1 piece
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CE 0483

CoCr welding wire

Perfect dimensions for use when laser welding all CoCr alloys. Delustered surface for enhanced energy absorption.

Ø 0.35 mm

2 m Coil



528-200-50	1 piece
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CE 0483

Composition (percentage by mass)

Co	Cr	Mo
65	28	5.5

Additional elements less than 1%: Si, Mn

Ø 0.5 mm

2 m Coil



528-220-00	1 piece
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CE 0483



NiCr welding wire

For laser welding NiCr based alloys. Specifically for high grade alloys such as remanium® CS, CSe and G-soft.

Ø 0.5 mm

2 m Coil

Composition (percentage by mass)

Ni	Cr	Mo	Nb	Ta	Fe
61	22	9	2	2	1

Additional elements less than 1%: Mn, Si, Al, Ti, Co

Pure titanium wire – grade 1

according to DIN 17850 for laser welding.

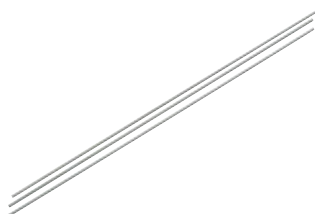
Shapes:

round Ø
rolled

Length of rods: 50 mm

Length of coils: 2 m

The wire with Ø 1.5 mm is recommended for axes of swing locks.



Diameter	Length	REF	Pack.
Ø 0.4 mm	2 m	528-039-50	1 coil
Ø 0.7 mm	2 m	528-040-50	1 coil
Ø 1.0 mm	100 mm	528-041-00	10 rods
Ø 1.2 mm	100 mm	528-042-00	10 rods
Ø 1.5 mm	50 mm	528-050-00	1 rod
∅ 0.25x3.0 mm	100 mm	528-044-00	10 rods
∅ 0.5x1.5 mm	100 mm	528-043-00	10 rods

CE 0483

Adjustable focusing device for the laser welder

This holder is a device for the perfect adjustment of the crosshair of dental laser welders. The testing plate is clamped into the adjustable holder. The height is then perfectly adjusted in the welding chamber. As soon as the testing plate is visible in the microscope, the laser beam is aimed at the testing plate and the crosshair can be aligned with that particular point.

090-525-00	1 piece
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Testing plates

To use with Adjustable focusing device for the laser welder REF 090-525-00

090-526-00	5 pieces
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Paralax

Device for parallel alignment of attachments for the laser welding technique.

Incl. 2 paralleling holders for bars: 1.6 mm and 2.1 mm

090-520-00	1 piece
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Parallelhalter für Stege

available in 2 designs for bar hinges

micro 1.6 mm	210-023-00	1 piece
macro 2.1 mm	210-013-00	1 piece



Argon fitting

Durchflussanzeige in Liter

090-404-00	1 Assortment
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Armrest cushions

For laser

090-513-10	2 pieces
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077-000-00

1 piece

Spot Welding Unit – Junior 3000

- Pulse current up to 1200 amps
- Two welding settings
- One soldering setting
- No continuous soldering
- Rocker switch for operating mode
- Connection for hand electrode
- Connection for foot switch
- Model: 230 V / 50 / 60 Hz

Hand electrodes, holder for hand electrodes and foot switch are not included in delivery.



078-000-00

1 piece

Spot Welding Unit – Assistent 3000

- Pulse current up to 2000 amps
- Six welding settings
- Two soldering settings
- Button for continuous soldering
- LED display
- Automatic voltage detection
- Current limitation if electrode is incorrect
- Power saving device (stand-by mode if not used for 10 minutes)
- Fault signals for:
 - overheating
 - check electrodes
- connection for handpiece
- connection for foot switch
- Model: 110-240 V / 50 / 60 Hz

Hand electrodes, holder for hand electrodes and foot switch are not included in delivery.



079-000-00

1 piece

Spot Welding Unit – Master 3000

- Pulse current up to 2200 amps
- Continuous power adjustment in all modes
- Button for continuous soldering
- LCD-display with 5 language settings (German, English, French, Italian, Spanish) for selection by the customer
- Automatic voltage detection (110-240 V)
- Current limitation if electrode is incorrect
- Power saving device (stand-by mode if not used for 10 minutes)
- Fault signals for:
 - overheating
 - check electrodes
 - system problems
- Printer connection e.g. for welding report as patient documentation, REF 090-581-00
- Connection for hand electrode
- Connection for foot switch
- Model: 110-240 V / 50 / 60 Hz

Hand electrodes, holder for hand electrodes and foot switch are not included in delivery.

Foot Switch

Can be used for the Spot Welding Units Junior 3000, Assistant 3000 and Master 3000.

080-116-00

1 piece



Hand Electrode, single

Suitable for all Dentaurem Spot Welding Units.

081-101-00

1 piece



Holder for Hand Electrode

For right and left side of the Spot Welding Units Junior 3000, Assistant 3000 and Master 3000.

081-204-00

2 pieces

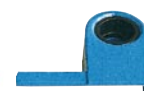


Holder for Hand Electrode

For right side of the Spot Welding Units Junior 3000, Assistant 3000 and Master 3000.

081-205-00

1 piece

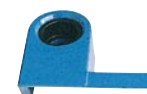


Holder for Hand Electrode

For left side of the Spot Welding Units Junior 3000, Assistant 3000 and Master 3000.

081-206-00

1 piece



Soldering Carbon for Hand Electrode

With copper casing.

Suitable for all Dentaurem Spot Welding Units.

081-601-00

1 piece



Electrode, notched

For soft-annealing, tempering and welding.

Suitable for all Dentaurem Spot Welding Units.

081-501-00

2 pieces



Clamping Electrode

For soft-annealing, tempering and welding.

Suitable for all Dentaurem Spot Welding Units.

081-701-00

1 piece



Upper Welding Electrode

- copper
- round, fine

Suitable for all Dentaurem Spot Welding Units.

085-000-00

1 piece



Upper Welding Electrode

- copper
- wide, flat












Suitable for all Dentaurem Spot Welding Units.

085-100-00

1 piece



Accessories

	085-200-00	1 piece	<p>Upper Welding Electrode</p> <ul style="list-style-type: none"> · copper · round, thick <p>Suitable for all Dentaurum Spot Welding Units.</p>
	086-000-00	1 piece	<p>Lower Welding Electrode</p> <ul style="list-style-type: none"> · copper · round, fine <p>Suitable for all Dentaurum Spot Welding Units.</p>
	086-100-00	1 piece	<p>Lower Welding Electrode</p> <ul style="list-style-type: none"> · copper · wide, notched <p>Suitable for all Dentaurum Spot Welding Units.</p>
	086-200-00	1 piece	<p>Lower Welding Electrode</p> <ul style="list-style-type: none"> · copper · round, thick <p>Suitable for all Dentaurum Spot Welding Units.</p>
	086-300-00	1 piece	<p>Lower Welding Electrode</p> <ul style="list-style-type: none"> · copper · wide, flat <p>Suitable for all Dentaurum Spot Welding Units.</p>
	085-300-00	1 piece	<p>Soldering Electrode</p> <p>Carbon with holder, suitable for all Dentaurum Spot Welding Units.</p>
	085-400-00	10 pieces	<p>Carbon Insert</p> <p>For Soldering Electrode REF 085-300-00.</p>
	084-100-00	10 pieces	<p>Screws</p> <p>For tightening electrodes on Dentaurum Spot Welding Units.</p>
	907-047-10	1 piece	<p>Fuse, 2 Amp</p> <p>Slow acting - 220 V.</p>
	907-037-10	1 piece	<p>Fuse, 3.15 Amp</p> <p>Slow acting - 220 V.</p>
	083-100-00	1 piece	<p>Screw Driver</p> <p>For replacing electrodes on all Dentaurum Spot Welding Units.</p>

Files

For sanding copper and carbon electrodes on Spot Welding Units.

083-300-00	10 pieces
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Heat Screen

Protects metals, plastics and ceramic parts against heat damage during soldering.

380-070-00	100 g
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Dentaflux®

Universal flux for flame and electro soldering.

681-100-00	50 g
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Universal Solder Pellets

oval

Cadmium free.
Ready fluxed.
Working temperature: 700 °C / 1292 °F

381-001-00	25 pieces
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CE 0483



Universal Silver Solder Paste

in syringe, each 7.5 g

Cadmium free.
Ready fluxed.
Working temperature: 630 °C / 1166 °F

380-804-50	1 piece
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CE 0483



Universal Silver Solder

In rods, ready fluxed.
Cadmium free.
Working temperature: 700 °C / 1292 °F

380-604-50	1,2 g
380-604-60	10 x 1,2 g

CE 0483



Universal Silver Solder

In rolls, without flux.
Cadmium free.
Working temperature: 700 °C / 1292 °F

380-704-50	10 g
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CE 0483



White Gold Solder

In rods, ready fluxed.
Cadmium free.
Working temperature: 950 °C / 1742 °F

380-600-50	1.8 g
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CE 0483





090-155-00	1 piece
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universal[®] 230 autocast

Casting Machine – Total flexibility

One unit – many possibilities – whether titanium or non precious alloys, high gold containing or semi precious alloys, Dentaureum's new autocast universal[®] 230 casting machine transforms every casting material into a perfect cast.

- **Protection from contamination**
Due to an easy to clean chamber insert, virtually all contamination is eliminated.
- **Higher capacity**
Shorter processing times and quick changes from one material to another increase work-efficiency in the lab.
- **User friendly**
Simply select „Titanium“ or „Alloy“ via rotary potentiometer and the process parameter will automatically make the correct selection for you.
- **Gentle melting**
Individual setting for each alloy.
- **Dependable optical control of melting**
Window with 2 stage brightness adjustable viewing glass

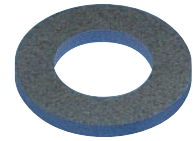
Technical data

Mains connection	230 Volt, 1-phase, 50/60 Hz, ignition 4.6 kW
Plug fuse	1 x 16 A, slow
Capacity	Up to 15 castings per hour
Vacuum pump	Two-step, oil-free vacuum pump, 65 l/min.
Dimensions (W x H x D)	450 x 800 x 450 mm + 200 mm distance to the wall
Weight	90 kg

Ceramic seal

Asbestos free.
High temperature resistant casting ring seal.
For all rematitan® and autocast casting machines.

090-012-60	100 pieces
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Copper crucible for casting machines

For rematitan®, rematitan® autocast and autocast universal® 230 casting machines.

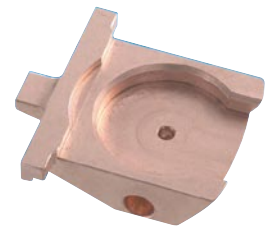
090-110-00	1 piece
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Receptacle for ceramic crucible

For autocast universal® casting machines.

090-160-00	1 piece
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Ceramic crucible small

For autocast universal® casting machines.

090-161-00	10 pieces
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Ceramic crucible large

For autocast universal® casting machines.

090-161-50	10 pieces
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Crucible electrode

For autocast universal® casting machines.

090-162-00	5 pieces
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Crucibles

For Megapuls casting machines up to year of construction 2005

Ceramic crucibles (MgO, SiO₂). for melting CoCr, NiCr and Pd-alloys.

090-610-00	10 pieces
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Graphite insert

For crucibles REF 090-610-00. For melting precious alloys.

090-615-00	10 pieces
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090-620-00

1 piece

compact megapuls

The new Megapuls compact is an extremely compact, high frequency, centrifugal casting machine. Can be used for all types of casting requirements within the dental laboratory from non-precious metal alloys to precious metal alloys (except titanium). Easy operation and high centrifugal strength, aid in producing perfect casting results including detailed technical work.

Advantages:

- Exceptionally compact, high frequency casting machine
- Extremely good value for money
- Very short melting cycles due to strong performance, the casting arm quickly comes to a halt.
- Easy operation
- High centrifugal strength
- Casting performance can be adjusted gradually.
- HF coil is lowered automatically.

Further product informations:

Folder REF 989-449-20

Technical data

Mains connection	230 V / 50/60 Hz
Max. power consumption	2.4 kW
Average power consumption	1.5 kW
Torque	0...21 Nm
Max. melting quantity	100 g precious alloy, 70 g non-precious alloy (CoCr, NiCr)
max. power output	2.2 kW
cooling water flow	1 l/min
Dimensions (W x H x D)	560 x 400 x 580 mm
Weight	55 kg

Crucible for Megapuls compact

Ceramic crucible for CoCr, NiCr and Pd alloys.

- longer service life
- minimum adherence of metal and slag

090-611-00	10 pieces
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Graphite insert

For ceramic crucible REF 090-611-00.
For melting of precious alloys.

090-615-00	10 pieces
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Table with integrated water tank and pump

The circulating cooling water makes it possible to operate the casting machine without an exterior water supply. At the same time the height of the table guarantees optimal working conditions.

090-606-00	1 piece
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Technical data

Mains connection	230 V / 50/60 Hz
Power consumption	220 W / 1.1 A
Volume of water tank	24 l
Water supply	9 l/min
Max. water pressure	3.3 bar
Room temperature when in use	15–40°C
Storage temperature	5–40°C
Dimensions (W x D x H)	680 x 650 x 600 mm
Weight	35 kg



AIRVAC 2002

The AIRVAC 2002 is a universal vacuum mixer for use in dental technology. It can be used for mixing any standard investment, plaster or silicone.

A feature of the integrated industrial motor is its very high torque. The high-performance vacuum pump incorporated in the unit is maintenance-free

095-072-00	1 piece
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Advantages:

- very easy to operate
- precise positioning of the mixing shaft contributes to a long service life of the mixing motor
- compact
- automatic regulation of the vacuum provides increased reliability
- the mixing motor remains clean and is easily serviced due to a supporting filter and a fine filter in conjunction with the maintenance-free vacuum pump
- direct connection between mixing bowl and vacuum pump – no disturbing exterior hose
- mechanical coupling locks the mixing bowl in position
- a choice of 3 mixing bowls (900 g, 500 g and 120 g)

Contents:

- 1 AIRVAC 2002 vacuum mixer
- 1 Mixing bowl, medium
- 1 Instructions for use with EC Declaration of Conformity
- 1 Drilling template
- 1 Fixing set for mounting on the wall

Technical data

Mains connection	230 V / 50 Hz
Average power consumption	250 W
Fuse	T3,15 A
Min. vacuum pressure	100 mbar
No. of revolutions mixer	368 rpm
Dimensions (W x H x D)	150 x 325 x 212 mm
Weight (Wall unit)	11.5 kg

Unit base for AIRVAC 2002

095-075-00	1 piece
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Mixing bowl for AIRVAC 2002

1 mixing bowl with agitator, large, for 900 g of investment or 700 g of plaster

095-062-00	1 piece
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1 mixing bowl with agitator, medium, for 500 g of investment or 400 g of plaster

095-063-00	1 piece
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1 mixing bowl with agitator, small, for 120 g of investment or 100 g plaster

095-064-00	1 piece
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Dublitherm compact

The first of a new generation of duplicating dispensers

The Dublitherm compact is a very economic duplicating machine designed for all types of duplicating gel. Strong and efficient mixing and cutting apparatus. Uniquely motorised from above makes processing safe and eases cleaning. The duplicating gel is mixed quickly and thoroughly including when the gel has already set, just a few of this machine's great advantages.

2.5 kg capacity is adequate for most laboratories' requirements and therefore saves energy. The quick but gentle heating and cooling of the material together with the highly precise temperature control provide economical use and a consistent working temperature. These features are the foundation for the subsequent excellent results.

094-782-00	1 piece
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Advantages:

- Quick heating times due to the precise temperature control.
- Short cooling times due to a special cooling channel.
- Strong and efficient mixing apparatus.
- Mixing apparatus motorised from above the lid.
- Pot is easy to clean.
- Compact machine for 2.5 kg duplicating gel.
- Processing is gentle on material.
- Processing is also possible once the duplicating material has set.
- Low energy consumption
- Exact temperature control
- Easy to use.

Further product informations:

Folder REF 989-861-20

Technical data

Mains connection	230 V / 50/60 Hz
Power	700 W
Capacity	2.5 kg
Melting and cooling time	approx. 60 min
Melting temperature T_s	90 – 95°C / 194 – 203 °F
Working temperature T_A	45 – 55°C / 113 – 131 °F
Dimensions (W x H x D)	360 x 340 x 440 mm
Weight	18 kg

Protherm – Preheating Oven with Circulating Air

LCD display. Modern keypad. Microprocessor program control. Maximum of 4 heating stages per program. Capable of storing 98 different preheating programs. Audible end-of-program reminder. Error display. Luminous display of all data. 40% energy savings due to extra thick insulation and stainless steel housing. Digital display in German, English, French and Italian. Outlet for optional exhaust fan or catalytic wax vapor remover. Four sided heating. Delayed start feature. Pt Rh-Pt-thermocouple.

Casting of corrosion resistant metal.
Ceramic insulation.
Connection for catalyst and fume extractor.

096-180-00	1 piece
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Technical data

Muffle capacity (muffle Ø 80 mm)	6
Oven chamber dimensions (W x H x D)	200 x 110 x 250 mm
External dimensions (W x H x D)	480 x 580 x 590 mm
Mains connection	230 V / 50 Hz
Output	2300 W
with circulation	2600 W
Current uptake	10.6 A
with circulation	11.8 A
Electric fuse	16 A
Max. temperature	1100 °C / 2012 °F
Weight	80 kg



Fume extractor

Prevents damage to heating elements by extracting combustible gases from furnace. Suitable for all Dentaurum furnaces.

096-015-00	1 piece
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Technical data

Mains connection	230 V / 50 Hz
Power consumption	28 W
Pumping capacity	80 m³/h
Additional depth when fitted to furnace	170 mm





Ceramic furnace Austromat® D2

User can save 120 programs on 4 levels with freely programmable individual parameters and individual names. The menus allow you easily edit, save and copy programs by pressing a key. The automated self-check by the 32-bit electronics of the AUSTROMAT® D series.

230 V	095-200-00	1 piece
115 V	095-200-01	1 piece

Advantages:

- Automatic self-test for temperature and vacuum
- Changing the running program – The firing parameters can be changed with the press of a key
- Check program – an automatic diagnosis routine is integrated
- Auto-dry®: Simulates object temperature measurement and automatically regulates the distance from the firing chamber with the stepless, vibration-free lift for precise drying and cooling phases.
- Firing programs for all Dentaureum ceramic systems are pre-programmed

Technical data

Mains connection	230 V or 115 V / 50/60 Hz
Firing programs	120 free programs in 4 levels
Start- / preheating temperature	100 – 700 °C / 5 °C 212 – 1292 °F / 9 °F
Final- / firing temperature	500 – 1200 °C / 1 °C 932 – 2192 °F / 1.8 °F
Holding period with / without vacuum	00:00 min – 60:00 min*
Dimensions (H x W x D)	380 x 612 x 340 mm

* < 3 min in steps of 10 seconds / > 3 min in steps of 30 second



Ceramic furnace Austromat® D4

200 firing programs are available for individual programming. The integrated program manager allows clear and comfortable administration of the firing programs. The entire firing process with the firing number, program name and probable remaining time is displayed graphically or in a table on the colour screen. The automated self-check by the 32-bit electronics of the AUSTROMAT® D series ensures perfect firing monitoring and maximum reliability. The heating, holding or cooling phases preset in standard mode are freely programmable in professional mode.

230 V	095-210-00	1 piece
115 V	095-210-01	1 piece

Advantages:

- Menu control including temper and cooling phases
- Auto-dry®: Simulates object temperature measurement and automatically regulates the distance from the firing chamber with the stepless, vibration-free lift for precise drying and cooling phases.
- Set-up function for individual user adaption
- Firing programs for all Dentaureum ceramic systems are pre-programmed

Technical data

Mains connection	230 V or 115 V / 50/60 Hz
Firing programs	200 Programme individuell programmierbar
Start- / preheating temperature	100 – 700 °C / 1 °C 212 – 1292 °F / 1.8 °F
Final- / firing temperature	100 – 1200 °C / 1 °C 212 – 2192 °F / 1.8 °F
Holding period with / without vacuum	00:00 min – 99:59 min / 00:01 min:s
Dimensions (H x W x D)	380 x 612 x 340 mm

Ceramic press furnace Austromat 3001 press-i-dent®

This ceramic press furnace allows you to program firing and pressing cycles in any sequence without time limits. The unrestricted program design enables you to create any possible firing technique.

The regulatable electromechanical advance of the innovative upward pressing system (UPS) requires no compressed air connection and opens up unique possibilities. For example, different colours (presently up to three) can be pressed in a muffle ring in a single step (muffle system not included in the delivery). The ceramic furnace is supplied with vacuum pump and tongs.

230 V	095-220-00	1 piece
115 V	095-220-01	1 piece

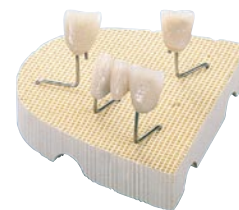


Technical data

Mains connection	230 V oder 115 V / 50/60 Hz
Firing programs	unrestricted program design
Pressure	10 – 300 N / 1 – 9
Active cooling when firing chamber is open and closed	100 – 1200 °C / 1 °C 212 – 2192 °F / 1.8 °F
Time-controlled temperature increase	1 – 99 °C / 1 °C/min 1.8 – 178.2 °F / 1.8 °F/min
Dimensions (H x W x D)	385 x 710 x 285 mm

Firing tray with holders

260-300-03	1 piece
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Holders for firing tray

260-300-13	6 pieces
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Carbon fibre chips

For purge of ceramic furnaces

260-317-00	10 pieces
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090-140-00	1 piece
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X-Control

X-Ray unit for titanium castings. Easy to use with Polaroid-Instant picture system. A must for quality control.

Contents:

X-Control, film holder and stepped wedge.

Technical data

Mains connection	220–240 V / 50/60 Hz
Output	1.5 kW
Dimensions (W x H x D)	250 x 500 x 300 mm
Weight	43 kg



090-142-00	1 piece
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Polaroid sheet film

for X-Control

Contents:

20 films



090-145-00	1 piece
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X-Ray stepped wedge

For adjustment of suitable exposure time..

Thermomat

Electric wax knife with temperature regulator and transformer. Anatomically shaped handpiece for ease of use.

The modelling knife attachment snaps into place to prevent rotation and can be exchanged with other modelling tips of your choice. Adjustable temperature to 280 °C/536 °F.

Unit includes modelling knife REF 089-602-00.

230 V	089-620-00	1 piece
115 V	089-611-00	1 piece



Modelling knife, small

089-602-00	1 piece
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Thomas modelling point, fine

089-603-00	1 piece
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Thomas modelling point, medium

089-604-00	1 piece
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Orthodontic wax knife

089-605-00	1 piece
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Modelling spatula

089-606-00	1 piece
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Handpiece/cable

with cable,
without instruments

089-612-00	1 piece
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Mini-Torch

Ignition and flame adjustment is easy and uncomplicated. Automatic, with a flick of your finger. To fill is easy as filling a lighter. Universal use: Soldering and flaming wax. Adjustable nozzle. **GS certified.**

Technical data:

Weight: 180 g / 6 1/2 oz.

Full capacity of the butane tank: 64 ml

Maximum temperature: 1300 °C / 2372 °F

Dimensions: 137 x 101 mm / 5 1/4" x 4"
(H x W)

097-400-01	1 piece
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094-220-00	1 piece
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Paramil 3 – Milling machine

Universal milling machine for all applications in prosthetics with outstanding value for money.

Advantages:

- Simplified milling in wax or metal.
- Precise hinged joint moves easily and can be locked in place when needed.
- Integrated pneumatic system represents a unique feature which allows the milling table to hover on an air cushion over the working surface if required.
- Built-in cooling ensures lubrication of the drill or of the milling surface.
- The integrated motor can be regulated to run up to 27,000 rpm in either clockwise or counterclockwise direction.
- The motor as well as cooling of the milling area are conveniently controlled by a foot pedal.
- Integrated halogen lamp provides excellent lighting conditions.

Contents:

Milling machine including motor and model table

Technical data

Mains connection	230 V / 50 Hz
Output	100 W
No. of motor revolutions	1,500 to 27,000 rpm
Chuck size	Ø 2.35 mm / Ø 3 mm
Lamp connection	12 V / 5 W
Compressed air	3 to 4 bar
Weight	approx. 24 kg
Dimensions (W x H x D)	240 x 510 x 270 mm



094-222-00	54 g
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Milling oil for Paramil 3

Paratherm – Surveying, blocking out and waxing unit

Advantages:

- Flexible measuring movement with linearly guided sliding bars.
- Horizontal swiveling range of the two arms over the entire working area.
- Separate measuring and thermal blocking-out rods, vertically spring adjustable. All positions fully adjustable.
- Secure lockings.
- Thermal temperature can be regulated up to 140 °C/284 °F.
- Replaceable tips.
- Heavy, rigid construction.
- Instrument storage holder.
- Connection for electric wax knife and holder.

Contents

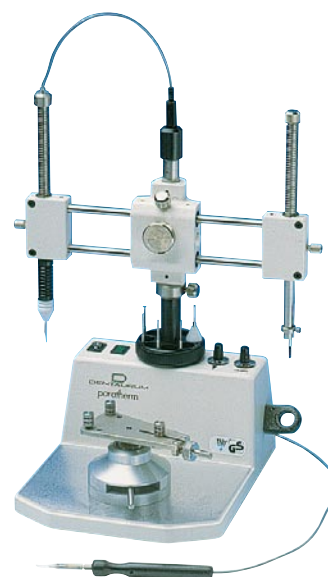
- 1 Paratherm with surveying and blocking-out arm
- 1 Analyzing rod
- 1 Graphite holder
- 10 Replacement graphite markers
- 4 Undercut gauges
0.25 / 0.35 / 0.5 / 0.75 mm
- 2 Thermal blocking-out instruments 0°, 2°
- 1 Plastic cover
- 1 Fuse
- 1 Instructions for use.

Please order model table separately (see page 238).

Technical data

Mains connection, adjustable	110 / 230 / 240 V / 50/60 Hz / 22 W
Temperature blocking-out unit	can be regulated up to max. 140 °C/284 °F
Dimensions (W x H x D)	200 x 390 x 240 mm

094-270-00	1 piece
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Paraline

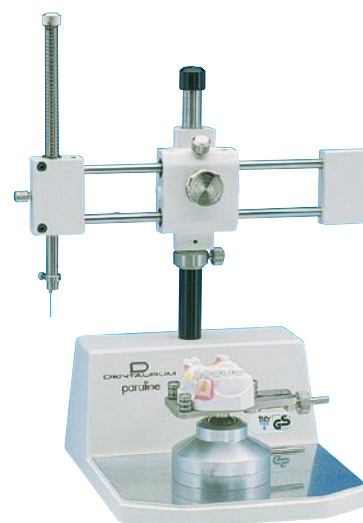
Surveyor (non-electric). Based on the Paratherm unit. No connection socket available for electric wax knife.

Contents

- 1 Paraline unit
- 1 Analyzing rod
- 1 Graphite holder
- 10 Replacement graphite markers
- 4 Undercut gauges
0.25 / 0.35 / 0.5 / 0.75 mm
- 1 Plastic cover
- 1 Instructions for use.

Please order model table separately (see page 238).

094-290-00	1 piece
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Accessories



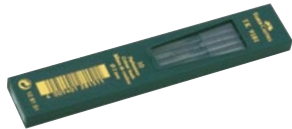
094-287-00	1 piece
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Analyzing rod



094-288-00	1 piece
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Graphite holder



094-289-00	10 pieces
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Replacement graphite markers



0.25 mm	094-283-00	1 piece
0.35 mm	094-284-00	1 piece
0.50 mm	094-285-00	1 piece
0.75 mm	094-286-00	1 piece

Undercut gauges



0°	094-275-00	1 piece
1°	094-276-00	1 piece
2°	094-277-00	1 piece
3°	094-278-00	1 piece
4°	094-279-00	1 piece
6°	094-280-00	1 piece
8°	094-281-00	1 piece

Thermal blocking-out instruments



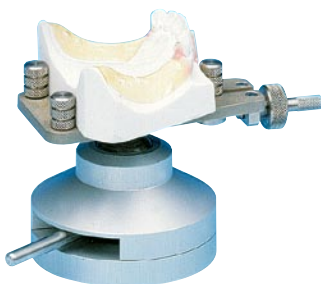
094-272-00	1 piece
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Electric wax knife

For connection to the Paratherm unit. The models to be blocked-out can be waxed directly on the unit. Adjustable temperature up to 240 °C / 464 °F. Anatomically shaped wax knife and modelling tips (REF 089-602-00 ... 089-606-00, see page 235).

Contents:

Handpiece, cable, wax knife.



086-340-00	1 piece
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Model table

Fully adjustable model holder, with easy and secure mounting of models. Large base, cast aluminum, clean and sturdy construction.

Dentablast

Robust blasting unit for all areas of dental technology

- For the quick and easy removal of investment material and oxides from cast objects
- For abrasive material with a grain size of up to 250 µm
- No risk of blockage
- External central extraction unit or extractor connection possible (accessories).

230 V	094-530-00	1 piece
115 V	094-531-00	1 piece

CE



Technical data

Mains connection	230 V or 115 V / 50/60 Hz
Power consumption	30 W
Compressed air connection	0 – 10 bar
Air consumption	270 l/h bei 10 bar, 150 l/h bei 5 bar
Dimensions (W x H x D)	330 x 570 x 410 mm
Weight	15 kg

Dentablast Duo

Maintenance free blasting unit with two abrasive material containers

- Separately adjustable pressure for both abrasive material containers
- For abrasive material with a grain size up to 250 µm
- A selection of 3 different nozzles
- External central extraction unit or extractor connection possible (accessories)

230 V	094-540-00	1 piece
115 V	094-541-00	1 piece

CE



Technical data

Mains connection	230 V or 115 V / 50/60 Hz
Power consumption	30 – 100 W
Compressed air connection	0 – 10 bar
Air consumption	136 – 160 l/h
Dimensions (W x H x D)	340 x 470 x 480 mm
Weight	24 kg

Extraction unit

for Dentablast Duo

094-550-00	1 piece
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Accessories



128-017-00	4.5 kg
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128-020-00	4.5 kg
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128-016-00	10 kg
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128-015-00	10 kg
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Blasting medium, white

99,6% Aluminum oxide

Reduced health hazard. Hard, multisides, wear-resistant particles for intense, fast cleaning action.

Dentaurum corundum satisfies the blasting medium requirements of the profession and national health and safety regulations.

Grain size 50 (44–74 µm)

Ceramic bonding alloys
Removal of the oxide layer and investment.
Cleaning of crown interiors. Removal of ceramics.

Grain size 100 (88–125 µm)

Surface preparation
Prior to application of the opaque.
Cleaning.

Grain size 250 (210–297 µm)

Removal of investment and surface treatment before ceramic application.

Grain size 400 (354–500 µm)

Removal of investment
for cast partial denture alloys.



128-011-00	10 kg
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128-010-00	10 kg
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Blasting medium, brown

Corundum

Multifaceted for highest quality rapid cleaning of CoCr-castings.

Grain size 250 (210–297 µm)

Grain size 500 (420–595 µm)



128-211-00	4.5 kg
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Polishing beads

Hardened silicate beads for alloys. Uniform hardness, high durability. These polishing beads produce clean, polished, contamination-free surfaces. No metal removal. Ultra-effective cleaning action.

Grain size 75 (50–105 µm)

Blast cleaning of crown interiors, attachments, connectors.
Insert for blast unit.

Dublito[®] micro Set

The electric mixer cools the molten duplicating material to working temperature in only 10 minutes.

A warning sounds once the working temperature has been attained. Mixes the duplicating material homogeneously.

Contents:

4 x 350 g Dublito[®] micro
1 signal thermometer,
1 mixer,
1 cooling beaker,
1 mixing lid

108-620-00	1 Set
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Dual wheel model trimmer

For plaster models in prosthetics and orthodontics.

One fine and one coarse grinding disc usable on both sides and interchangeable. Individual motors with 450 W power for each grinding disc. Individually regulated water flow.

Automatic water pressure control through electromagnetic valve. Working table with angulation and model positioning gauge.

091-100-00	1 piece
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Technical data

Mains connection	230 V / 50/60 Hz
Dimensions (W x H x D)	510 x 400 x 390 mm
Weight	39 kg

Corundum disc, coarse

For Dentaurum Dual wheel model trimmer
REF 091-100-00.

091-101-00	1 piece
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Corundum disc, fine

For Dentaurum Dual wheel model trimmer
REF 091-100-00.

091-102-00	1 piece
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Diamond disc, coarse

For Dentaurum Dual wheel model trimmer
REF 091-100-00.

091-105-00	1 piece
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Equipment / accessories



070-000-00

1 piece

Polyclav®

Polymerization pressure vessel for the orthodontic acrylic technique.

Pressure hose not included.

With safety valve.

Capacity: 4 litres



070-900-00

1 piece

Wärmeplatte

For Polyclav® REF 070-000-00.

Thermostatically controlled at 40 °C / 104 °F.

230 V~ / 50 Hz / 125 W

Color: RAL 9001 cream white



070-700-00

1 piece

Druckschlauch für Polyclav®

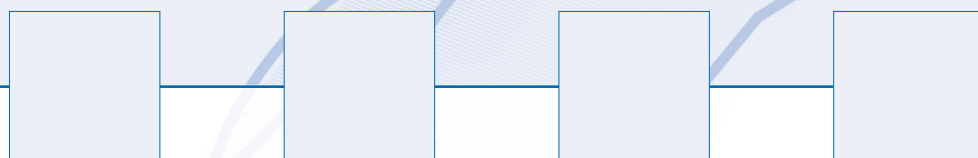
For Polyclav® REF 070-000-00.

Length: 2 m.

With valve matching connector.

Competence through Service

Added value – advice and support



Care of instruments.....	page 245
Logistics and environment.....	page 246
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Service- and Hotline-numbers please see page 5.

Cleaning and care of Dentaurem pliers and instruments

Important Guarantee Factor – for Premium-Line Pliers

Cleaning, disinfection, drying

Dentaurem pliers are suitable for all standard cleaning and disinfection processes (immersion bath, ultrasonic cleaning, thermal disinfection). Always observe the following procedures:

When using chemical disinfectants, always ensure that they are mixed in accordance with the manufacturer's instructions and that the correct concentrations are used. Disinfectants should be prepared freshly every day to avoid the effects of evaporation and contamination. Ensure that the concentrate has completely dissolved before placing the instruments in the bath. Do not exceed the maximum treatment time (**never leave the instruments in the bath overnight or over the weekend**) and temperature (not over 25 °C/77 °F). When cleaning manually, never use any hard objects (e. g. pan scratcher, metalbrush), as this would destroy the surface of the instrument and thus would increase the danger of oxidation. When using ultrasonic cleaning equipment, do not exceed the maximum treatment period. Use a suitable non-corrosive solution. Acidic chemicals (especially cement removers) may cause irreparable damage to your valuable instruments. Pliers and instruments with extra-hard inserts must be disinfected with especially mild chemicals containing corrosion-protection agents. Products such as Sekusept from Henkel or GIGASEPT FF manufactured by Schülke & Mayr are recommended. Strongly alkaline disinfectants may also be used.

Attention: Immediately following chemical disinfection and cleaning, the pliers and instruments must be carefully cleaned to remove all chemical residues. Rinse them thoroughly in distilled water containing no salts whatsoever (Instruments with joints always leave open!).

Important: Only use high quality distilled water according to EN 285. Another type of water may have a too high silicate content, which leads to yellow/brown stains on the instrument during the sterilization process. If rinsing is neglected, subsequent sterilization operations may cause discoloring or formation of rust on the instruments. The pliers and instruments must then be dried. The inside of the joints must be dried with special care (blowing through with compressed air is recommended).

Thermo disinfection

When using a thermo disinfectant always add a sufficient quantity of the correct chemical to neutralize the corrosive effect of the water at high temperatures. Immediately remove instruments from the thermo disinfectant after cleaning, never leave in damp environment (danger of oxidation).

Lubrication

Plier joints, sliding surfaces for springs and other critical points on the pliers should be treated with paraffin-oil spray after drying and before sterilization. Treatment of the extra-hard inserts with oil reduces the danger of oxidation. We recommend our new corrosion protector oil REF 055-200-00.

Attention: When using high heat sterilization only lubricate the inner part of the joints, no outside parts (danger of staining).

Sterilization

Important: Only carefully cleaned and dried pliers and instruments (without any trace of rust) should be placed in the sterilizer or auto-clave, instruments with joints always leave open. If rusty pliers and instruments are sterilized with clean uncorroded ones, a rust film may form, seriously damaging previously intact material. Special care is required when sterilizing chromium-plated pliers and instruments. For this reason, DENTAURUM pliers and instruments for the treatment area are made of stainless steel (except REF 037-266-00 and REF 044-177-00). Pliers and instruments should not be stored for long periods of time in a damp environment. For this reason, the door of the sterilizer should be opened immediately after the sterilization process. If necessary, dry the pliers and instruments with sterile cloths. When foil bags are being used, ensure that they are correctly positioned in the sterilizer. Ensure that they contain no residual moisture.

High heat sterilization

Sterilization at temperatures exceeding 180 °C/356 °F may **impair the hardness of the tips** and cause **discoloration of the pliers and instruments**. Cutting edges may also become dull more quickly.

Attention: When using high heat sterilization only lubricate the inner part of the joints, no outside parts (danger of staining).

Use of new pliers and instruments

Before using new pliers and instruments, they must be thoroughly cleaned and subjected to the entire process of preparation. Compliance with the above instructions will preserve the effectiveness and prolong the lifespan of your DENTAURUM pliers and instruments.

The guarantee does not apply if the equipment has been deliberately modified or used/cleaned in an unprofessional manner.

Innovative Logistics – In an ecological,



The Dentaurum Group's new logistics and office building

Our new Logistics and office building was finished within just nine months. Modern logistics and an energy saving building full of ecologically technical finesse produced a combination of both a successful and future orientated end result.

The Building Concept

The new building was erected in an 11m wide and 50m deep hole (the former courtyard) without any additional surface sealant. The two lower floors contain the automated spare part storage system. The two upper floors provide two levels of extra office space and make room for administrative expansion. These two floors rise up above the warehouse on the eastern side, of which the roof has recently been covered in greenery, providing a beautiful view and pleasant atmosphere within the office. The newly built technology centre has also had its roof covered in shrubs and plants and further green roof redevelopment is being planned. Directly to the west is the present management building. On the lower office floor there is a two storey inner courtyard which has been decorated in the style of a beautiful Asian garden to compensate for the lack of outer façade.

industrial building

The technological concept and indoor furnishings

An “ecological air conditioning unit” keeps the new offices at a constant, comfortable temperature. During office working times the inner air is continuously exchanged with fresh air. A total of 330m of pipes run beneath the floor boards, which are heated in winter and cooled in summer. The air which is blown out warms the incoming air in a so-called heat exchanger. This system means that no energy is wasted by escaping through an opened window and little energy is required for heating the rooms. The building is kept cool during especially hot summers by an automatic window opening mechanism which tilts the windows throughout the night-time. Cool night air is drawn into the building by the industrious outgoing air unit. In order to maintain an ideally cool building, the concrete ceilings have been treated in a different manner than accustomed. Instead of equipping the entire room with a suspended ceiling, only the areas directly above the working spaces have a partially lowered section. This allows the concrete ceiling to store the cool air and release it on warmer days. The roof insulation has been designed in such a manner that the mid-summer, warm air penetrates through the ceiling toward evening time, in other words, after work has finished. This is when the cooling system sets into motion once again.

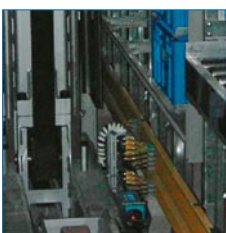
The well insulated windows and glass façade allow the winter sunshine to radiate through the glass unhindered and warm the inside rooms. An indoor thermometer signals an automatic sun blind into action to offer shade when a certain inside temperature is exceeded. Large blinds built into the outer façade reflect most of the summer heat but allow the lower winter sunshine to penetrate the rooms.

The individual office rooms are equipped with so-called “presence detectors”. These detectors register when somebody is in the office and regulate the heating and light accordingly. When the office user leaves the room, the control system switches the light off and reduces the room temperature automatically after a certain period of time has elapsed. The lighting control also regulates the amount of artificial light intensity required, so that there is a consistent level of light within the office. If the light from outside is sufficient for work procedures within that particular office, then the artificial light is automatically switched off.

Despite these various structural measures, the new Dentaaurum Group office building cost no more to build than conventional office buildings, and has the added advantage of a 30% reduction in energy costs whilst providing higher comfort and efficiency for the employees.

The floor was covered in a combination of linoleum and bamboo parquet. The water, collected in a new rain water cistern, is used to flush the toilets in the new building.





The New Logistics Center

Competence by means of quality – this was the foundation for the essential features of this concept developed by Dentaureum's project team, specially set up for this plan. Together with the company Sandt Logistik from Pirmasens, a logistics center, which boasts a highly economical level of automation and sets standards with its complexity, was built in record time.

The Guidelines for the new Logistics Center

- To increase the availability and security of the supplies
- To increase the efficiency of material flow with organizational matters
- Centralization of logistical functions to increase flexibility – especially concerning labour utilization
- To improve customer services by reducing processing time
- To expand available space for logistical procedures and increase productivity by improving technical equipment

The Heart of the new Logistics: Fully Automatic Container Storage

The **ACS (Automatic Component Storage)** with approx. 8100 spaces for standard sized containers is the heart of the new logistics center. This puffer memory system is a distribution and dispatching supply service. The shelves are approx. 40m long and 8m high. The **Shelf Access Equipment (SAE)** which runs on rails is capable of storing in and dispatching out 256 containers per hour.

A fully operational system is the correct combination of various techniques

Depending on their rate of turnover, some items are also stored in other stockpiles, on stand-by for distribution:

- 132 in an ACS storage row with continuous distribution, includes space for 700 single batch number standard sized containers, for the fastest moving items with direct supply from the ACS.
- 2 Blocks of manually operated distribution rows with a total of 360 channels for 1800 containers.
- 6 Paternoster lifts with 2.480 storage spaces for small items and brochures with product information.
- 2 rows (60 spaces) for skeleton transport boxes and palettes for items stored in large amounts (eg. Bulk packaging)
- Another 320 spaces for palettes are available in addition to the existing high bay warehouse.



Quick, correct and ergonomically optimal distribution

The greatest possible technical and organisational support for the personnel involved with this procedure – this was the motto throughout the planning of the various distributions systems.

In the **front of the ACS**, 4 workplaces have been set up. These can be used either for incoming products or dispatching products. The distribution orders are displayed at the workplaces and assembled directly from of the ACS containers. Then the storage containers are automatically transported back into the ACS, whilst the ordered container is transported into the distribution and packaging area.

Within the automatic and manual shelving system a **"pick-to-light" system** is put into action. A light signal is beamed onto the relevant rows. At the same time the display shows the operator the amount which is required, after removal it is confirmed and is receipted online. The result: high speed at the lowest rate of distribution error. With the aid of barcodes, the delivered products can be located at every stage of their journey.

At the Paternoster lifts the distribution orders are displayed on moveable **radio data transmission terminals**, after task completion they are also receipted here. **Distribution wagons**, built by Dentaaurum, are also equipped with radio data transmission terminals and are used to complete distribution orders in the pallet storage areas and drive supplies into the outer areas.

With all fittings and equipment it was extremely important to ensure all areas of work could be carried out ergonomically, for example when planning the grasp depth and height

The Essential Link: Transportation Distance

A multitude of storage and distribution containers are moved on a daily basis. There are only a few exceptions of plastic containers which are not conveyed on rollers. A transport distance of 180m in length connect the various storage and distribution areas and ensure of a smooth, but more importantly, fast delivery of commissioned containers into the packaging department.



Let's get Packing – the customer is waiting!

Even the packaging department shows details of remarkable ideas. A transport wagon allocates the customer orders via 30 different routes to the eight packing areas. There the order status is displayed e.g. completed, ready for packing or incomplete.

Thanks to this overall concept the customer orders can be carried out continuously and as quickly as possible, so that the goods may be delivered the following day at the latest (with orders placed up to 4pm). A normal standard inland contract requires max. 5-10 mins from order placement until packed and ready to dispatch.

Organised and controlled by a self-sufficient storage control system

The new Dentaurum Logistics Center with all its sub departments is organised and controlled by a self-sufficient storage control system (SCS) by Sandt Logistik. The SCS is with the Dentaurum HOST level, on which SAP R/3 is installed, and coupled with a standardized and certified IDOC interface.

The SCS receives item phrases, incoming goods advice and distribution contracts online from SAP R/3. These are processed in the SCS from a logistical point of view and generated into transport contracts for the logistic system. After successful completion a report is sent back and SAP R/3 is informed online.

















The SCS is based upon Sandt Logistik developed and well established foundation modules which are designed and adapted to suit user specifications. For example it includes the following functions:

- Management of stock with batch and use-by-date
- Distribution with graphic display as support of removal
- Information (e.g. All item containers, current stock information, contracts etc.)
- Transport statistics (e.g. Transport data as proof of entry and for location of items and complaints)
- Stock taking (eg. Permanent stock takes, zero point inventories)
- Diagnosis and visualization system (e.g. detailed display of all routes, containers, display of current errors, etc.)


Approximately 99% availability (downtime < 1%) proves the quality and performance of the system. We are convinced that we have taken another step in the right direction for our customers, the environment and last but not least for ourselves.

John-Marco Fader
(Manager Material Economy)
Dentaurum, Ispringen

Symbols and Pictograms

REF	Order number		Matrix code
 2012-05	Use by... (Best before date)		Green dot
 12345	Batch description	 	Wear a dust mask. Avoid inhalation of dust.
	CE Mark MP Class 1		Wear protective goggles
 0483	CE Mark MP Class 2		Certificate of compliance of the EU guidelines on packaging
	Radiation sterilized	 	Xn / Harmful to health Xi / Irritant
	Ethylene oxide sterilized	 	F / Flammable F+ / Highly, very flammable
	Non-sterile		T / Poisonous, toxic
	Refer to instructions for use		C / Corrosive
 → www.dentaurum.de	Instructions for use available in the internet		N / dangerous for the environment
	Refer to information	Rx only	Only to be used by trained, skilled personnel
	Not for reuse	T_G	Transformation temperature
	Protect against frost	α	Symbol for coefficient of thermal expansion (CTE)
	Prescribed storage temperature		Number of revolutions per minute
	Codablock barcode		

Example



Product description, e.g. Orthocryl®

Product description, detailed information e.g. methyl methacrylate

Order number

Quantity

Use-by date

Pictograms and symbols

LOT 12345

Matrix code

Codablock barcode

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003-053-00	204	086-300-00	222	094-290-00	237	102-632-00	66
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003-202-00	206	089-604-00	235	094-610-00	155	105-008-00	100
003-233-00	204	089-605-00	235	094-611-00	155	105-008-50	100
003-290-00	205	089-606-00	235	094-612-00	155	105-020-00	100
003-515-00	204	089-611-00	235	094-782-00	230	105-020-50	100
003-516-00	205	089-612-00	235	095-062-00	229	105-020-80	100
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007-024-00	207	090-140-00	234	095-200-00	232	105-609-50	99
008-025-00	207	090-142-00	234	095-200-01	232	105-610-50	99
008-030-00	106	090-145-00	234	095-210-00	232	105-610-85	99
008-052-00	208	090-155-00	224	095-210-01	232	105-620-50	99
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012-523-00	207	090-400-00	217	097-003-50	197	105-742-80	76
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