

# SILADENT

## PRODUCT CATALOGUE

analog | digital

# 2026

- 1924** Ludwig Böhme produces the first dental gypsums in Hohenbocka/Lausitz, Eastern Germany. After WWII, his son Dr. Gerold Böhme sets up a second company, Dr. Böhme KG, in Bad Sachsa, Lower Saxony, and merges this with his father's company in 1989. In 1934, Carl Schöps begins producing and selling dental gypsums in Bad Sachsa/Harz.
- 1984** The company SILADENT-Technik GmbH is established in Munich. Adisil® becomes the first A-silicone used to make silicone duplicate moulds for investment casting, replacing the conventional gel duplicating materials. Specialist aluminium flasks are replaced by the technically superior and more economical SILADENT duplicating system. The fine-grained investment material Granisit® is introduced as it is more suitable for silicone duplication.
- 1985** The company Ludwig Böhme in Hohenbocka (VEB Dental-Chemie Hohenbocka) becomes the largest manufacturer of dental gypsums in Eastern Germany. Dr. Böhme KG in Bad Sachsa and Carl Schöps GmbH in Osterode develop new hard stones and super hard stones for the European market.
- 1986** The SILADENT system is completed. This comprehensive chain of coordinated materials and well thought-out applications sets completely new standards as regards t and surface quality.
- 1994-1995** Development of "Presto Vest", the first speed casting investment for c&b. Introduction of the universal "Premium", still one of the most successful speed casting investments.
- 1995** The companies "Dr. Böhme KG" and "Carl Schöps GmbH" merge to become "Dr. Böhme & Schöps Dental GmbH", headquartered in Goslar.
- 1995** SILADENT-Technik joins the well-established "ERNST HINRICHS Dental" group in Goslar.
- 2000** SILADENT-Technik transfers its headquarters from Munich to newly built administration and production buildings in Goslar, benefiting from its cooperation with Dr. Böhme & Schöps Dental on dental gypsums and abrasive materials.
- 2003** Dr. Böhme & Schöps Dental takes over established Berlin-based company "W. Röhrich & Co. GmbH", which was created by the Kühnast family in 1896 and supplied dental laboratories and industrial businesses with specialist gypsums products for over three generations.
- 2004** "SILADENT-Technik GmbH" and "Dr. Böhme & Schöps Dental GmbH" merge to become "SILADENT Dr. Böhme & Schöps GmbH". The new company supplies perfectly coordinated dental materials for everything from model creation and duplicating to investing and casting.
- 2005** Modern production facilities and a new dispatch warehouse are built.
- 2008** SILADENT Dr. Böhme & Schöps takes over the German leading one-piece casting system called TEK-1 from the founder Rainer Ehrich.
- 2010** Extended product range with CAD-CAM consumables products under the brand „BioStar“ and milling systems under the brand „SilaMill“.
- 2015** Introduction of a CAD software called "SilaPart" for the digital production of high quality partial framework denture.
- 2017** Sales start of 3D printer systems under the brand "SilaPrint".
- 2024** Start of a sales cooperation in the field of 3D laser melting with ZoneLab from Darmstadt

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## SILADENT Dr. Böhme & Schöps

### Our experience is your success!

**SILADENT** is a family-operated dental company and belongs to the leading manufacturers of dental gypsums, duplicating materials, investments as well as abrasives and polishing material in Europe. We employ approx. 90 employees in 2 North German production sites.

We produce dental gypsum since 1924. We offer all gypsum qualities needed in the dental technology. We only use raw materials with the best quality from naturally occurring or synthetic gypsum from the food industry.

**SILADENT** is leading in the analogue dental casting technology. With our concerted material chain and the proven application we achieve a so far unprecedented fitting accuracy and surface quality. Many trend-setting dental techniques come from SILADENT: for example the first additioncuring duplicating silicone, the flask less duplicating technique, ring less embedding, the first speed investment as well as numerous additives for the dental technique. All of these developments are indispensable today in the daily dental work practice.

Next to the analogue materials we offer a continuously growing portfolio of digital milling materials under the name "BioStar". Our "SilaMill" milling systems are equipped with software solutions according to the practice. With the first adequate, self-developed CAD-software for manufacturing digital frameworks **SILADENT** is setting new digital standards. Digital manufacturing processes with our 3D printers have proven themselves due to their quality and economic efficiency. Experienced, multilingual application technicians are available for customers for all technical questions.

You can find further information under

**[www.siladent.com](http://www.siladent.com)**



## SilaPoly

A two component (1:1) model material based on polyurethane with a low shrinkage for the production of demonstration and presentation models and for internal control models as well.

- very low-viscous (thin flowing)
- easy to process
- long working time
- low shrinkage < 0,1 %
- stable in dimension
- high precision and edge stability
- easy to mill and grind
- optionally dyeable in different colours



SilaPoly 2 x 1 kg bottles REF 243002

## Base former

By means of the SILADENT base former, the model creation obtains a fast, economical and clean working basis. After 5 seconds only, the perfect base former is ready for each impression. The simple handling and the high economic efficiency (low consumption of material) turns the base former into an important practice attendant.



SILADENT Base former	Set (upper & lower jaw)	REF 102640
SILADENT Base former	upper jaw	REF 102641
SILADENT Base former	lower jaw	REF 102642

## Model system Profident evolution

In this starter set you will find everything you need to create true saw-cut models in combination with the Magic Model 3D CAD model builder. (page 71)

The pin base plates are designed for single use.



Profident evolution starter set complete REF 240316

Contents:

20 pcs. pin base plate, small	20 pcs. insert w/o metal core
4 pcs. Splitcast plate, small	1 pc. reamer
10 pcs. pin base plate, large	1 set (5 x 15) pcs. articulation supports MM3D
4 pcs. Splitcast plate, large	1 pc. Reamer 2 mm for articulation supports
10 pcs. insert with metal core	1 pc Plastic hammer for model systems

Profident Evolution pin base plate small, 10 pcs.	REF 240302
Profident Evolution pin base plate small, 50 pcs.	REF 240303
Profident Evolution pin base plate large, 10 pcs.	REF 240304
Profident Evolution insert with metal core, white, 10 pcs.	REF 240305
Profident Evolution insert without metal core, white, 50 pcs.	REF 240306
Profident Evolution insert with metal core, white, 10 pcs.	REF 240318



## Model system Profident 2010

This innovative, reliable model system ensures maximum precision and saves a great deal of time and material. There is no need to invest in additional, expensive equipment. The Profident 2010 can also be used for fabricating high-quality sectioned models quickly. After preparing the impression, the complete model including the base is fabricated in one step. The Profident 2010 has a preformed, dimensionally stable split cast.

The components and pin base plates, which are supplied in two sizes, are reusable and cover all applications.

**Profident 2010 complete starter set REF 240000**

Contents:

1 x working instruction,	1 x model sleeve, size 2,
3 x pin base plate, size 1,	1 x removal device,
2 x pin base plate, size 2,	1 x 100 ml Profisep 2010,
3 x study model plate, size 1,	1 x positioner plate, size 1,
2 x study model plate, size 2,	1 x positioner plate, size 2.
2 x model sleeve, size 1,	

**Pin base plate incl. split cast plate and magnet, size 1 REF 240001**

**Model sleeve, size 1 REF 240002**

**Study model plate, size 1, 25 plates REF 240003**

**Removal device, size 1 REF 240004**

**Pin base plate incl. split cast plate and magnet, size 2 REF 240011**

**Model sleeve, size 2 REF 240012**

**Study model plate, size 2, 25 plates REF 240013**

**Removal device, size 2 REF 240014**

**Profisep 2010 (separating agent), 100 ml REF 240021**

**Profisep 2010 (separating agent), 500 ml REF 240022**

## Pin base plate ECO incl. magnet

A base plate with plastic pins (instead of metal pins) as an economic solution for the perfect model, compatible with the model system Profident 2010.

**Pin base plate ECO incl. magnet size 1, 10 pieces REF 240505**

## DIN EN ISO 6873

The European countries have approved set instructions for dental gypsum. Type 5 for super hard stone with high expansion are a new category.

DIN EN ISO 6873, which is binding for all manufacturers, classifies the products as follows:

- Typ 1** Impression plaster
- Typ 2** Plaster & Articulation plaster
- Typ 3** Hard Stone
- Typ 4** Super Hard Stone (up to 0,15 % expansion)
- Typ 5** Super Hart Stone (up to 0,30 % expansion)

Following minimum requirements for the different classes were stipulated:	Standard consistency in mm	Minimum processing time in minutes	Min./Max. hardening time in minutes	Max. hardening expansion in % after 2 hours	Min./Max. compressive strength N/mm <sup>2</sup> after 1 hour
Type 1 Impression Plaster	80 +/- 4	1,25	2,5 / 5,0	0,15	4,0 / 8,0
Type 2 Plaster & Articulation plaster	75 +/- 4	2,5	6,0 / 30,0	0,30	9,0
Type 3 Hard Stone	30 +/- 3	3,0	6,0 / 30,0	0,20	20,0
Type 4 Super Hard Stone, low exp.	30 +/- 3	3,0	6,0 / 30,0	0,15	35,0
Type 5 Super Hard Stone, high exp.	30 +/- 3	3,0	6,0 / 30,0	0,16 - 0,30	35,0

If comparing the data provided for the various gypsum, please ensure compliance with the times stipulated. Binding expansion must be determined 2 hours after, and pressure resistance 1 hour after water-gypsum contact. If other times or measuring units (e.g. Brinell hardness, hardness) are specified, these are not comparable with the DIN EN ISO 6873 values and will mislead the user. Our quality controls at the plant are in strict compliance with DIN EN ISO 6873.

## Preparations of Impressions

In laboratory practice, problems between the various moulding compounds and gypsum arise time and time again. Since some moulding compounds have an aggressive reaction towards gypsum, pre-treatment is required in order to prevent, for instance, efflorescence on the surface of the gypsum model. We therefore recommend the following measures:

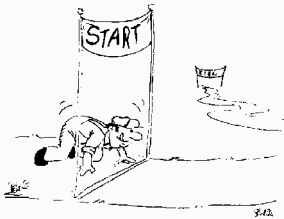
Material	Alginate	Polyether	Hydrocolloids	Silicones
<b>Properties</b>	Shrinking will occur as a result of moisture loss. Cannot be stored longterm – max. 1 hour; keep moist.	Hydrophilic properties/ Swells if stored for a long time in disinfectant.	Pour out immediately, otherwise the volume will alter considerably.	Stable shape and insensitive without a change in volume.
<b>Preparation</b>	Completely remove saliva and blood residues. Neutralise by immersing in trimmer water or gypsum powder/ Thicken with alginate liquid.	Remove saliva- and blood residues under tap water.	Completely remove saliva- and blood residues under tap water. Neutralise by immersing in trimmer water or gypsum powder, then rinse and immerse in 2% potassium sulphate solution.	Remove blood- and saliva residues under tap water.
<b>Disinfection</b>	With conventional disinfectant or 1% peracetic acid; risk of swelling. Rinse under tap water.	With conventional disinfectant; again a risk of swelling – therefore disinfect only for a short period.	With conventional disinfectant or 1% peracetic acid. Again a risk of swelling. Rinse under tap water.	With conventional disinfectants.
<b>Storage</b>	Pour out after a max. of 60 minutes and protect against drying out with moist wipes.	Good storage stability; relatively insensitive.	Quickly pour out/gypsum with a short setting time are beneficial; prolonged contact adversely affects the surface of the gypsum model.	Cross-linking silicones can be stored for unlimited periods; condensation-cross-linked silicones can be stored for a limited period.

Strictly comply with the manufacturer's instructions for use when using moulding compounds and disinfectants.

1

**Preparation**

Before mixing a new load of gypsum, check whether the mixing equipment is clean and dry. Remnants of old gypsum on mixing-spatulas, containers or stirrers will give rise to negative changes in the setting time and in the expansion of the new mixture. Ideally, gypsum should always be mixed in vacuum and in carefully weighed ratio of powder to water. Measuring by rule of thumb will naturally lead to considerable deviations in the technical data. The duration and intensity of stirring must be adapted to the manufacturer's specifications. The water must always be filled in first and the gypsum powder sprinkled in afterwards.



2

**Mixing Water**

Dental gypsum can generally be mixed with distilled water at room temperature. If the water is very hard, the setting time may differ from that quoted. Use additives with care! In such case, use demineralized or distilled water.

If you add, for example, trimming water or gypsum hardener fluids, losses of quality cannot be ruled out.



3

**Sprinkling the gypsum powder**

Sprinkle the gypsum powder into the mixing water evenly but quickly, i.e. within about 10 seconds. According to DIN EN ISO 6873, the time interval starts when the powder and the water come into contact for the first time.

Allow the powder about 20 seconds of soaking time before beginning to mix with a spatula. When using impression plasters (type 1), stir the mixture manually with a spatula for 30 seconds. Plaster (type 2), Hard Stone (type 3) and Super Hard Stone (type 4) should be stirred for 60 seconds.



7

**Moving from the mould**

Never move a solidified model from the mould sooner than 30 minutes after casting. On account of their poor volumetric stability, alginate and hydrocolloidal moulds should be cleaned, disinfected and neutralized before being filled with the gypsum. These moulds should be emptied after 30 minutes, however, because they act aggressively on gypsum. With other impression materials it is an advantage to remove the models up to one hour later.



8

**Expansion**

All gypsum expand at the end of the setting period. The extent of the expansion depends on the composition of the gypsum, the ambient temperature and the air moisture. A comparison of expansion measurements between different gypsum is only possible with absolutely identical conditions and time data. Our expansion specifications are determined, therefore, in accordance with DIN EN ISO 6873. When you draw comparisons, please look for reference to the DIN-standard and concrete time data! DIN lays down that the gypsum's expansion must be stipulated in % after 2 hours and that its pressure resistance must be quoted in MPa after one hour.

If a model is kept for some time at room temperature and at a low level of air moisture, the expansion will decrease by about 30 %. Soaking the model, as it is sometimes necessary, will cause the expansion to increase again slightly, even with set gypsum.

Our dental gypsum lie far below the expansion values permitted by the DIN standard (see table). Practice shows, however, that a certain expansion of the gypsum is required in order to compensate the contraction of other materials.



4

## Mixing

Mixing in a vacuum mixer generally has a positive effect on the gypsum. When mixing mechanically in a vacuum, you will need only half the time quoted for manual mixing, i.e. 60 seconds mixing by hand equals 30 seconds mixing by machine (280 rounds/min. with 5-6 bar). You should never add more gypsum powder to an excessively thin mix or more water to an excessively thick mix. You will only be interfering in the setting process and will damage the gypsum crystal structure.



5

## Casting

The finish mixture must be transferred immediately to the mould.



Never mix more gypsum at the time than you will need for 2-3 impressions because the mould must be filled within the processing time. During the crystal forming process, which starts at the end of the processing time, the gypsum must be left alone. If you work with a gypsum that has started to solidify, the fine details will not be reproduced with enough accuracy and the strength of the gypsum will be reduced notably. This point must be observed particularly if you use vibrator. Filling the mould on a vibrator certainly has a positive impact on the formation of bubbles, pressure resistance and fluidity, but the vibrating must never be continued into the setting time.

6

## Modelling time

If the gypsum loses its lustre, it is possible to model or trim the gypsum for about 60 seconds. The subsequent setting time varies from one grade of the gypsum to another. We fix a setting time of approx. 10-12 minutes +/- 1,5 minutes for hard stone (type 3). Some super hard stone, on the other hand, are tuned for longer overall setting times. Setting times in accordance with a customer's individual wishes are possible for large orders. The gypsum must not be processed in any way during the setting time.



9

## Surface problems

Difficulties with the surface between the gypsum and alginate or hydrocolloidal moulding materials can be overcome by pretreatment of the mould. Alginate impressions can be neutralized with trimming water of gypsum powder and insulated with alginate insulant to prevent blooming or unhardened areas in the surface of the model. Hydrocolloidal impressions should be replaced in potassium sulphate or potassium carbonate solution and neutralized.

Carefully remove saliva and blood remnants, as they will also impair a dental gypsum setting properties.

10

## Soaking the model

Gypsum casts should never be subjected to shock treatment. If a cast needs to be evaporated for example, soaking (for approx. 5-8 minutes) will reduce the risk of the model being affected by flaking and cracking.

Cleaning with a stream lance may remove surface layers and lead to inaccurate contours. Models are best cleaned with a soft brush and a mild soap solution. Brief soaking may also prevent aking and spalling when old models are being sawn or prepared.

In order to prevent surface erosion, the water can be saturated with calcium sulphate, for example by inserting old models.



There is no such thing as a universal gypsum that meets all requirements. The principal indications for the various dental gypsum are listed below. Of course, the use of these gypsum may overlap, depending on your experience in this field.

	implant models, saw-cut models, master models	Partial frameworks (CrCo)	Working models, counter-bite models, acrylic dentures	Acrylic dentures, repairs, relines	Study models	Dental coroneae sockets for saw-cut models, for all pin systems	Orthodontic cases, show models, super white	Articulation, pre-walls, impressions	Scannable
<b>Plaster &amp; Articulation plaster, type 2</b>									
Dr. Balzer® Special plaster								✓	
Articulation plaster								✓	
Mounting Stone								✓	
Universal					✓				
Spezial					✓				
Dura-Semi-hard stone				✓	✓				
<b>Hard Stone, type 3</b>									
Neo Marmorit® Super		✓	✓	✓	✓				
Neo Marmorit®			✓	✓	✓				
Neo Marmorit® Speed			✓	✓	✓				
Modelit®			✓	✓	✓				
Marmodent®			✓	✓	✓				
Marmodent® S			✓	✓	✓		✓		
Neo Marmorit® E			✓	✓					
Natura			✓	✓	✓		✓		
Ortho Plaster							✓		
<b>Super Hard Stone, type 4</b>									
Marmorock® Saphir	✓								✓
Marmoplast® N	✓								
Marmorock® 20	✓								
Marmorock® 22/24	✓	✓							
Marmorock® Speed	✓								
Japan-Stone	✓								
Neo Stone	✓	✓	✓				✓		
Die Stone	✓	✓							
Excalibur	✓	✓							
Base stone (FL)						✓			
CAM-Stone N	✓								✓
<b>Super Hard Stone, type 5</b>									
MarmoDie	✓		✓						
Marmorock® E	✓		✓						

### Dr. Balzer® Special plaster Natural material

Articulation plaster

Peppermint flavour

A fast setting, high precision special plaster with peppermint smell, which is mainly used as a fast setting articulation plaster. Dr. Balzer is easy to handle, has a creamy consistency and guarantees an exact impression with a very low expansion.

**Recommendation:**

Articulation.








50 ml / 100 g    1,5 min.    2,5 min.    2 h    15 MPa / 1 h    20 MPa / 24 h

### Articulation plaster Natural material

with lemon smell

A special plaster for articulation works, characterised by slight expansion and excellent setting properties. For bite-interlocking, transfer sockets and reaming techniques, pre-walls and reamed sockets; fixing of KFO sockets, registering bite.

**Recommendation:**

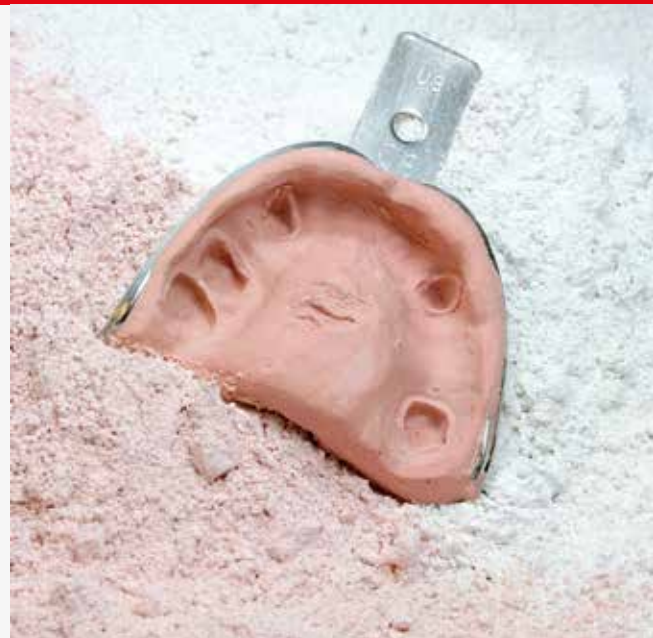
Articulation.








40 ml / 100 g    3 min.    4,5 min.    2 h    20 MPa / 1 h    30 MPa / 24 h



Product	Colour	25 kg bag REF	20 kg carton REF	4 x 5 kg bag REF
Dr. Balzer® Special plaster	natural white	201134	201139	-
	pink	200114	200119	-
Articulation plaster	natural white	200104	200109	200101



## Articulation plaster Synthetic material

A special plaster for articulation works, characterised by slight expansion and excellent setting properties. For bite-interlocking, transfer sockets and reaming techniques, pre-walls and reamed sockets; fixing of KFO sockets, registering bite.

### Recommendation:

Articulation



## Mounting Stone Natural material

Controlled plaster, very white, for precise impression and articulation work. Extremely low setting expansion and excellent positioning. Absolute precision is ensured for articulation casts. Its short setting time facilitates efficient work.

### Recommendation:

Articulation, pre-walls



## Universal Natural material

Made of pure Alabaster of the Harz mountains with share of 25 % of hard stone. A material with controlled expansion values you can produce volume constant and solid moulds with.

**Short setting time: 10 - 12 minutes.**

### Recommendation:

study models, fixing of situation casts.



Product	Colour	25 kg bag REF	20 kg carton REF	4 x 5 kg bag REF
Articulation plaster, synthetic	super white	200894	200899	200891
Mounting Stone	snow white	-	200504	-
Universal	natural white	200134	200139	-

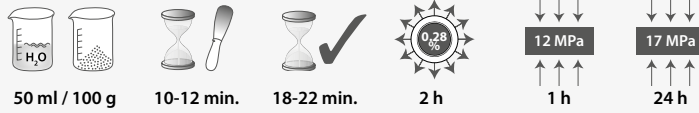
**Spezial** Natural material

Produced of pure Alabaster of the Harz mountains, contains a quarter of hard stone. Moulds made with this alabaster plaster are volume constant and solid. Controlled expansion.

**Long setting time: 18 - 22 minutes.**

**Recommendation:**

study models, fixing of situation casts.



**Dura semi-hard plaster** Natural material

Is used for laboratory work, when hard stone is too hard and the conventional plaster is too soft. Dura semi-hard plaster is especially suitable for working on plastics. With this plaster best results can be achieved.

**Recommendation:**

acrylic dentures, repairs, relines



Product	Colour	25 kg bag REF	25 kg carton REF
<b>Spezial</b>	natural white	200124	20 kg 200129
<b>Dura semi-hard plaster</b>	blue	200164	200169
	green	201644	201649
	natural white	201634	201639



### Neo Marmorit® Super Natural material

Mixture of type 3 + 4

Casts have a smooth surface, are pressure resistant and retain their shape. This is ideal hard stone for parodontal bracing, metal plates, supported prothese in precious metals and steel, for regulation work and all other operations calling for the greatest possible accuracy of fit and hardness.

**Recommendation:**

working and checkbite casts, acrylic dentures, repairs, relines, situation casts









26 ml / 100 g    5-6 min.    10-12 min.    2 h    1 h    24 h



### Neo Marmorit® Natural material

Neo Marmorit has a good volume stability and shape, is highly pressure resistant and has a smooth surface. These are all outstanding properties for the manufacture of prostheses with a perfect fit, whether it is out of hard stone, precious metals or steel alloys. This hard stone is made of pure natural hard gypsum. Also available as Neo Marmorit Speed, where a quick setting time (6-7 min.) is desired.

**Recommendation:**

working and checkbite casts, acrylic dentures, repairs, relines, situation casts









30 ml / 100 g    5-6 min.    10-12 min.    2 h    1 h    24 h



### Neo Marmorit® Speed Natural material

A special short setting double grained hard stone for quick repairs and urgent works. The model surface is very smooth with a high compressive strength. Due it's quick setting time the gypsum model can be removed after 10-15 minutes and further work completed on it.

**Recommendation:**

working and checkbite casts, acrylic dentures, repairs, relines, situation casts









30 ml / 100 g    2-3 min.    5-6 min.    2 h    1 h    24 h








Product	Colour	25 kg bag REF	25 kg carton REF
Neo Marmorit® Super	grey	202314	202319
	white	200234	200239
	mint	202374	202379
Neo Marmorit®	blue	200204	200209
	yellow	200214	200219
Neo Marmorit® Speed	blue	202004	202009
	yellow	202104	202109

### Modelit® Natural material

For hard and solid casts with an exceptional pressure resistance and a smooth surface.

**Recommendation:**

working and checkbite casts, acrylic dentures, repairs, relines, situation casts

30 ml / 100 g    5-6 min.    10-12 min.    2 h    30 MPa 1 h    60 MPa 24 h

### Marmodent® Natural material

Especially suitable for prosthetics and orthodontics because of special choice and raw materials and selected production process.

**Recommendation:**

working and checkbite casts, acrylic dentures, repairs, relines, situation casts









30 ml / 100 g    5-6 min.    10-12 min.    2 h    23 MPa 1 h    50 MPa 24 h

### Marmodent® S Synthetic material

Synthetic hard stone for orthodontics and prosthetics. Especially suitable for show models and similar purposes.

**Recommendation:**

working and checkbite casts, acrylic dentures, repairs, relines, situation casts, orthodontics, very white show models.





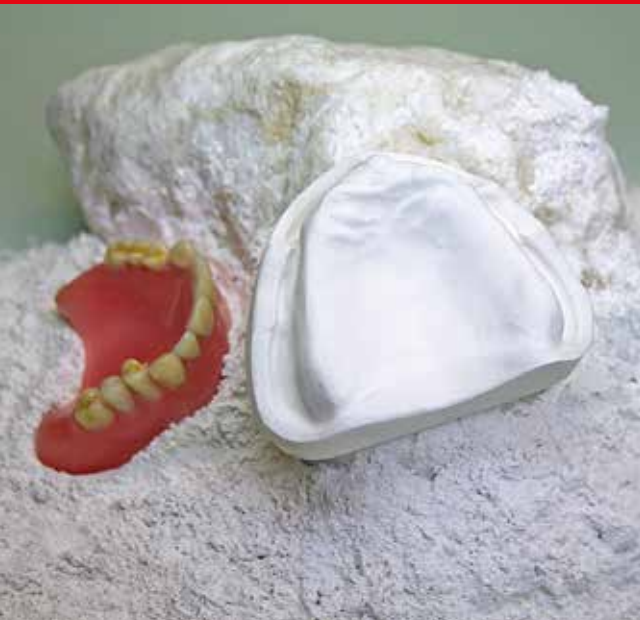




30 ml / 100 g    5-6 min.    10-12 min.    2 h    26 MPa 1 h    50 MPa 24 h



Product	Colour	25 kg bag REF	25 kg carton REF
<b>Modelit®</b>	blue	200634	200639
	yellow	200624	200629
<b>Marmodent®</b>	blue	200824	200828
	yellow	200814	200818
	green	200844	200848
	pink	201834	201839
	natural white	200834	200838
<b>Marmodent® S</b>	blue	208244	208249
	yellow	208144	208149
	super white	208344	208349



## Neo Marmorit® E Natural material

A special formulated dental stone with a high setting expansion. This special gypsum is used for the model creation and the investing during the use with dental acrylics where a high expansion is necessary to compensate the shrinkage of the acrylic dentures (e.g. SR Ivocap Injection System). Neo Marmorit® E is also usable for all flexible resins (e.g. Valplast; Flexstar / Nobilium).

### Recommendation:

Acrylic dentures









25 ml / 100 g    5-6 min.    10-12 min.    2 h    30 MPa    60 MPa  
 ↑ ↑ ↑    ↑ ↑ ↑    ↑ ↑ ↑    ↑ ↑ ↑    ↑ ↑ ↑    ↑ ↑ ↑



## Natura Natural material (orthodontics)

A volume-retaining dental hard stone, which is used for orthodontics. Its smooth surface and high pressure resistance are special characteristics of this natural hard stone.

### Recommendation:

working and checkbite casts, acrylic dentures, repairs, relines, situation casts, orthodontics, very white show models









30 ml / 100 g    5-6 min.    10-12 min.    2 h    30 MPa    60 MPa  
 ↑ ↑ ↑    ↑ ↑ ↑    ↑ ↑ ↑    ↑ ↑ ↑    ↑ ↑ ↑    ↑ ↑ ↑



## Ortho Plaster Natural material (orthodontics)

It is used for orthodontic casts and study models, easy to mix, has a good fluidity and is harder than ordinary orthodontic hard stones. Easy to grind and polish. Furthermore a shiny, ultra white surface can be achieved.

### Recommendation:

orthodontics, very white show models









35 ml / 100 g    8 min.    13-15 min.    2 h    30 MPa    62 MPa  
 ↑ ↑ ↑    ↑ ↑ ↑    ↑ ↑ ↑    ↑ ↑ ↑    ↑ ↑ ↑    ↑ ↑ ↑

Product	Colour	25 kg bag REF	25 kg carton REF	4 x 5 kg bag REF
Neo Marmorit® E	white	-	-	200241
Natura	super white	200224	200229	
Ortho Plaster	snow white	-	22,7 kg 200493	

### Marmorock® Saphir Synthetic material

An extremely hard super hard stone with a snap-set effect (long working time). You can demould the die stone after 30 minutes and work on it. Marmorock® Saphir has a very creamy flowing property with a high thixotropy and low expansion. The extraordinary colours depend on special compounds which are scannable, absolutely homogenous and free from reams.

**Recommendation:**

implant models, saw-cut models, master models, scannable



20 ml / 100 g



6-8 min.



12-14 min.



2 h



65 MPa

1 h



90 MPa

24 h



### Marmoplast® N Resin-stabilized material

Marmoplast® N is possessing a high edge stability and low expansion. Marmoplast N is not brittle and does not splinter as easily as other super hard stones. Super smooth surface and especially high fluidity.

**Recommendation:**

implant models, saw-cut models, master models



20 ml / 100 g



7-8 min.



15-17 min.



2 h



60 MPa

1 h



90 MPa

24 h



Product	Colour	25 kg bag REF	25 kg carton REF	4x5 kg bag REF
<b>Marmorock® Saphir</b>	golden brown	-	-	206602
	ivory	-	-	206612
	maize yellow	-	-	206622
	light grey	-	-	206632
<b>Marmoplast® N</b>	golden brown	170104	170109	170108
	ivory	171004	171009	171008
	apricot	171014	171019	171018
	pearl grey	171024	171029	171028



### Marmorock® 20 Natural material

A fine flowing and thixotropic super hard stone with an exceptional hardness. Outstanding edge stability and compressive strength, very good resistance to scratching and breakage while having a minimum expansion. Also available as Marmorock Speed, where a quick setting time (6-7 minutes) is desired.

**Recommendation:**

implant models, saw-cut models, master models

20 ml / 100 g
 6-7 min.
 12-14 min.
 2 h
 60 MPa
 90 MPa



### Marmorock® 22 Natural material

A reliable and thixotropic super hard stone with a high hardness. Marmorock® 22 offers smooth surfaces and good edge stability combined with a very low expansion.

**Recommendation:**

implant models, saw-cut models, master models

22 ml / 100 g
 6-7 min.
 12-14 min.
 2 h
 55 MPa
 80 MPa



### Marmorock® 24 Natural material

A medium hard and thixotropic super hard stone. Marmorock® 24 offers smooth surfaces and good edge stability combined with a low expansion.

**Recommendation:**

saw-cut models, control models, orthodontic cases, models for partial frameworks

24 ml / 100 g
 6-7 min.
 12-14 min.
 2 h
 50 MPa
 75 MPa

Product	Colour	25 kg bag REF	25 kg carton REF	4 x 5 kg bag REF
<b>Marmorock® 20</b>	golden brown	200594	200592	200599
	yellow	205904	205902	205909
	green	205914	205912	205919
	white	200604	200609	200602
<b>Marmorock® 22</b>	golden brown	205924	205922	205929
	yellow	205934	205932	205939
	green	205944	205942	205949
	white	206014	206012	206019
<b>Marmorock® 24</b>	golden brown	205954	205952	205959
	white	206024	206022	206029

### Marmorock® Speed Natural material

A special short setting super hard stone for carrying out urgent repairs and urgent works where a high compressive strength, low expansion and thixotropic properties are desired. Due to its quick setting time the gypsum model can be removed after 10-15 minutes and further work complete on it.

**Recommendation:**

implant models, saw-cut models, master models, repairs



20 ml / 100 g



3-4 min.



5-6 min.



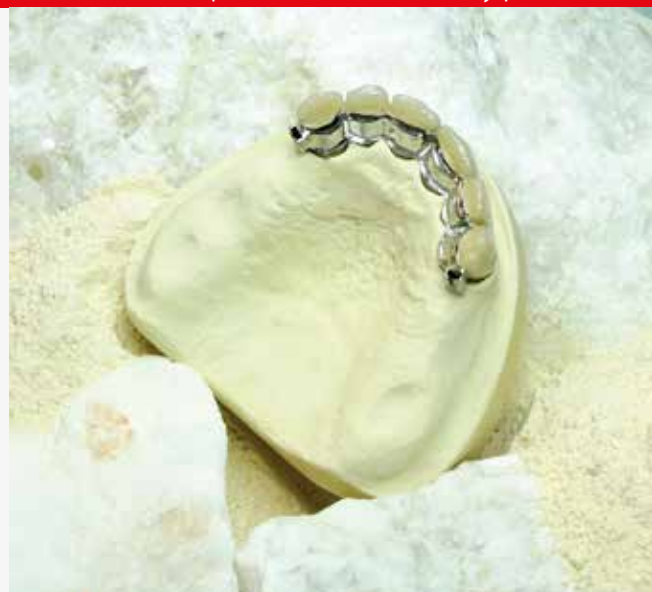
2 h



65 MPa  
1 h



90 MPa  
24 h



### Japan-Stone Synthetic material

An exceptional super hard stone of type 4 with low setting expansion, high accuracy of fit, an enormous hardness, special fluidity and a smooth and resistant surface.

**Recommendation:**

implant models, saw-cut models, master models



20 ml / 100 g



5-6 min.



10-12 min.



2 h



60 MPa  
1 h



85 MPa  
24 h



### Neo Stone Synthetic material

A super hard stone of type 4 made of mineral raw material and synthetic additives. It is characterized by its low expansion and high edge resistance. This gypsum is ideally suited for stump and saw casts and guarantees constant processing and setting properties.

**Recommendation:**

master models, control models, working and checkbite casts, orthodontics, very white show models



23 ml / 100 g



5-6 min.



10-12 min.



2 h



45 MPa  
1 h



75 MPa  
24 h



Product	Colour	25 kg bag REF	25 kg carton REF	4 x 5 kg bag REF
Marmorock® Speed	golden brown	206104	206109	206101
Japan-Stone	golden brown	200184	200189	200188
	super white	200174	200179	200178
Neo Stone	pink	200884	200882	200888
	super white	208834	208832	208838



## Die Stone Natural material

For stump casts, crowns and bridges, high accuracy of fit as a result of low setting expansion, very smooth and hard surface.

### Recommendation:

saw-cut models, master models

					
22 ml / 100 g	6-7 min.	10-13 min.	0,07 %	52 MPa 1 h	75 MPa 24 h



## Excalibur Natural material

This material is excellently suitable for precision works. Its high degree of hardness provides good trimability and the outstanding scratch and pressure resistance are ideal for the production of crowns, bridges and partial dentures.

### Recommendation:

saw-cut models, master models

					
22 ml / 100 g	7-8 min.	11-13 min.	0,09 %	54 MPa 1 h	80 MPa 24 h

Product	Colour	25 kg bag REF	25 kg carton REF	4 x 5 kg bag REF
Die Stone	peach	200474	(22,7 kg) 200475	200479
Excalibur	golden brown	204554	204559	204558
	green	204544	204549	204548
	white	204534	204539	204538

## Base Stone

For the setting of dental coroneae, pre-walls, reamed sockets, and the fixing of inner linings and orthodontic models. With this setting base stone, the expansion properties are adjusted to suit type 4 super hard stone, tension-free models and the accurate introduction of pins.

### Recommendation:

sockets for master models if using dowel pins, pin systems



## Base Stone FL

An extremely fine-flowing super hard stone for basing models without using a vibrator. The powder-water-mixture can be directly poured out of the mixing bowl into the base former.

### Recommendation:

sockets for master models if using dowel pins, pin systems



## CAM-Stone N

Special stone for scanning systems

CAM-Stone N has been developed for opto-electronic scanning. It prevents interfering reflections in the defined wave-lengths. By using CAM-Stone N the coating of the gypsum model is not necessary. The short setting time allows a fast chairside treatment.

### Recommendation:

implant models, saw-cut models, master models, scannable



Product	Colour	25 kg bag REF	25 kg carton REF	4 x 5 kg bag REF
<b>Base Stone</b>	pink	209884	209889	209881
	white	209834	209839	209831
<b>Base Stone FL</b>	green	209864	209869	209861
	blue	209854	209859	209851
	white	209844	209849	209841
	deep blue	229854	229859	229851
	terracotta	298604	298605	298601
<b>CAM-Stone N</b>	ivory	205124	205129	205121







**MarmoDie** Natural material

Because of the high compressive strength and the good scratch resistance it's perfect for many requirements. It's high expansion compensates for the contraction of other materials.

**Recommendation:**

saw-cut models, master models, control models





21 ml / 100 g    6-7 min.    10-13 min.    2 h    45 MPa 1 h    90 MPa 24 h



**Marmorock® E** Natural material

A fine flowing thixotropic super hard stone, which offers extraordinary hardness made of high purity natural stone. Its high expansion compensates for the contraction of other material. Marmorock E has a high scratch and fracture resistance and is especially suitable for first class prothesis.

**Recommendation:**

saw-cut models, master models, control models









20 ml / 100 g    6-7 min.    12-14 min.    2 h    60 MPa 1 h    90 MPa 24 h

Productg	Colour	25 kg bag REF	25 kg carton REF	4 x 5 kg bag REF
<b>MarmoDie</b>	green	-	(22,7 kg) 204316	204311
	golden brown	-	(22,7 kg) 200436	200431
<b>Marmorock® E</b>	golden brown	200614	200619	200611

**Rapidex** Setting accelerator

A tried and tested setting accelerator for all conventional types of gypsum.

1 kg	can	REF 200404
5 kg	bucket	REF 200400

**GipEx** Gypsum dissolving agent

For the removal of residual gypsum from prostheses, artificial resin crown etc.. Non-acid and ideal for use in ultrasonic equipment. Solution ready for use.

1.000 ml	bottle	REF 207401
5.000 ml	canister	REF 207402

**GipEx** Tabs

GipEx Tabs High reactive binder for dental gypsum and phosphate bound investments in the gypsum separator. Prevents waste pipe blockage, reduces unpleasant smells and facilitates separator cleaning.

2 pieces	(test set)	REF 207410
10 pieces		REF 207411
25 pieces		REF 207412

**Marmosep G** Gypsum/Gypsum separating agent

A specially developed gypsum/gypsum separating agent for use with Base stone FL. Marmosep G dries quickly, seals the surface effectively and does not create a greasy film. Application: Spray the gypsum model at a distance of approx. 20 cm and allow to dry. Do not allow „puddles“ to build up!

250 ml	spray bottle	REF 207335
1.000 ml	refill bottle	REF 207331

**Marmosep K** Gypsum against acrylics

Alginate based insulating agent for hot and cold polymerisates, for gypsum casts using acrylics. Its thin and smooth coat is resistant against scratching and insulates reliably.

1.000 ml	bottle	REF 200731
5.000 ml	canister	REF 200732





### Algidur-Liquid Alginate neutralizer

Neutralizer and disinfectant agent for alginate impressions, prevents emission of alginic acid and thus produces smooth gypsum casts. Algidur-Liquid can be used for all kinds of alginates.

250 ml	spray bottle	<b>REF 200740</b>
1.000 ml	refill bottle	<b>REF 200741</b>
5.000 ml	canister	<b>REF 200742</b>



### Gypsum Gloss Impregnation for gypsum models

An environmentally impregnation for all gypsum models. The gypsum models get thru the gloss bath a moisture-, fat- and dust repellent and a shiny surface as well.

4.500 ml	canister	<b>REF 603151</b>
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### Measuring Cylinder

Filling volumen 100 ml, made from clear and break stable plastic (PMP), graded.

### Aluminium gypsum scoop

For gypsum and investments, size: 210 mm for approx. 160 g powder



Measuring Cylinder	100 ml	<b>REF 200791</b>
Gypsum scoop	210 mm length	<b>REF 200795</b>

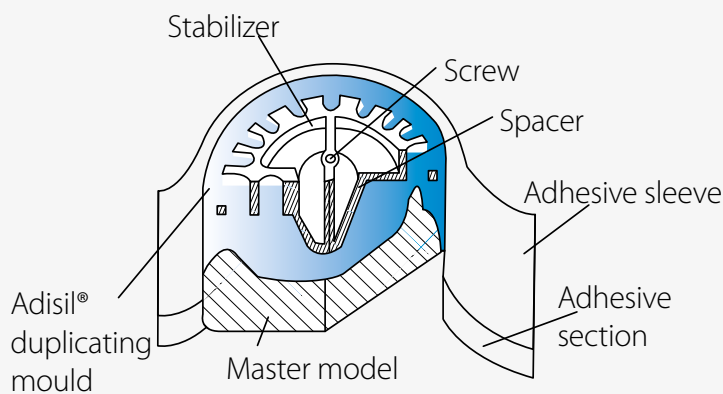
## The SILADENT flaskless duplicating

In dental technology, duplicating models for chrome-cobalt has always involved using flasks in a variety of shapes and sizes. When using the SILADENT system, flasks are no longer required.

In the early 1980's SILADENT introduced a new group of materials to dental technology by developing and formulating silicones which are suitable as an alternatives to agar agar-based duplicating gels for duplicating models used in dental technology. This new method of duplicating using silicone was the basis for further innovative developments - especially in materials and technical methods - and has led to the current well-known flaskless SILADENT technique.

For further information about the SILADENT flaskless duplicating technique refer to our handbook for the partial denture frameworks (REF 902005) which may be obtained from our sales representative or direct from the SILADENT technical department.

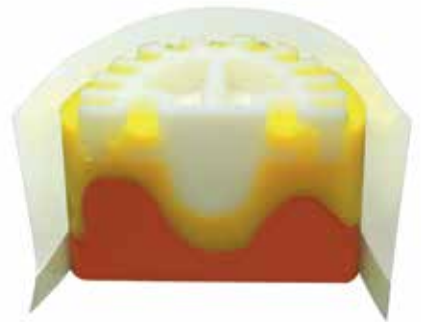
→ Handbook for the partial denture frameworks **Page 64**



The SILADENT flaskless duplicating system



Model with adhesive duplicating tape ready for duplicating



Cross-section of a flaskless duplicating mould



Fixation device for flaskless duplication



## Adisil® blue 9 : 1

Addition-curing duplicating silicone for the highest standards. The duplicating silicone for the first flask-less SILADENT system (adhesive tape technique).

- Highly accurate reproduction to within 1/1000 mm
- No shrinkage
- No deterioration
- Excellent tensile strength and tear resistance properties and values
- Virtually no limit to the number of times the duplicating mould can be poured

### Technical data:

(DIN EN ISO 14356, type 2 - irreversible duplicating material)

Mixing ratio:	9 : 1
Mixing under vacuum:	40 sec.
Working time at 23°C::	approx. 6 min.
Curing time at 23°C:	approx. 30 min.
Tensile strength:	approx. 4,7 MPa
Elongation at break:	approx. 365 %
Tear strength:	approx. 24 N/mm
Shore A hardness:	> 24
Colour:	blue

1 kg	Components A + B	<b>REF 101001</b>
4 kg	Components A + B	<b>REF 101004</b>
6 kg	Components A + B	<b>REF 101007</b>
30 kg	Components A + B	<b>REF 101010</b>



## Adisil® pink 1 : 1

A high-quality addition-curing duplicating silicone with all the prerequisites for the adhesive tape and flasking techniques

- Easy and economical measuring
- Suitable for dispensers
- Ideal low viscosity

### Technical data:

(DIN EN ISO 14356, type 2 - irreversible duplicating material)

Mixing ratio:	1 : 1
Mixing under vacuum:	40 sec.
Working time at 23°C:	> 5 min.
Curing time at 23°C:	30 - 40 min.
Tensile strength:	approx. 2,2 MPa
Elongation at break:	approx. 310 %
Tear strength:	> 6,5 N/mm
Shore A hardness:	> 24
Colour:	pink

2 x 1 kg	Components A + B	<b>REF 101201</b>
2 x 6 kg	Components A + B	<b>REF 101204</b>
2 x 25 kg	Components A + B	<b>REF 101207</b>

## Hydrosil 1 : 1

A new type of addition-curing duplicating silicone. For the first time ever, specially formulated with hydrophilic properties. Its excellent physical properties meet all requirements for use with the proven flaskless SILADENT duplicating system.

- Wetting agents no longer required
- No unwanted reactions within the material chain
- Smoother model surfaces without using wetting agents



### Technical data:

(DIN EN ISO 14356, type 2 - irreversible duplicating material)

Mixing ratio:	1 : 1
Mixing under vacuum:	40 sec.
Working time at 23°C:	4 - 5 min.
Curing time at 23°C:	approx. 30 min.
Tensile strength:	approx. 2,6 MPa
Elongation at break:	approx. 400 %
Tear strength:	approx. 7,0 N/mm
Shore A hardness:	22 - 24
Colour:	green

2 x 1 kg	Components A + B	REF 101301
2 x 6 kg	Components A + B	REF 101304
2 x 25 kg	Components A + B	REF 101307

## Kontursil 1 : 1

Addition-curing duplicating silicone. Recommended for use in when duplicating with conventional flasks.

- High reproduction of detail graphic accuracy
- Provides for easy model removal due to greater flexibility
- May be mixed with a dispenser



### Technical data:

(DIN EN ISO 14356, type 2 - irreversible duplicating material)

Mixing ratio:	1 : 1
Mixing under vacuum:	40 sec.
Working time at 23°C:	> 5 min.
Curing time at 23°C:	30 - 45 min.
Tensile strength:	approx. 1,8 MPa
Elongation at break:	approx. 220 %
Tear strength:	> 3,0 N/mm
Shore A hardness:	16 - 18
Colour:	turquoise

2 x 1 kg	Components A + B	REF 101401
2 x 6 kg	Components A + B	REF 101404
2 x 25 kg	Components A + B	REF 101407



## Adisil® rapid 1 : 1

A rapid-curing, addition-curing duplicating silicone, developed especially for express jobs using adhesive crepe sleeves or flasks. Remove Adisil® rapid from the duplicating mould after just 10 minutes.

- removable from the duplicating mould after 10 minutes
- suitable for use with dispensing units
- tear/ tear growth resistant
- low-viscosity

### Technical data:

(DIN EN ISO 14356, type 2 - irreversible duplicating material)

Mixing ratio:	1 : 1
Mixing under vacuum:	40 sec.
Working time at 23°C:	3 - 4 min.
Curing time at 23°C:	10 min.
Tensile strength:	approx. 2,2 MPa
Elongation at break:	approx. 310 %
Tear strength:	> 6,5 N/mm
Shore A hardness:	25
Colour:	yellow

2 x 1 kg	Components A + B	REF 101231
2 x 6 kg	Components A + B	REF 101234
2 x 25 kg	Components A + B	REF 101237



## Adisil® glasklar 1 : 1

Transparent addition-curing duplicating silicone. Mixing ratio 1 : 1. The physical properties of the earlier product have been improved and the newly developed product is now available.

- Suitable for duplicating single dies and also for the SILADENT duplicating system
- Light-curing composites with a wavelength between 300 and 500 nanometers may be polymerized through the silicone
- Specic uses in prosthetics
- Not suitable for use with dispensers

### Technical data:

(DIN EN ISO 14356, type 2 - irreversible duplicating material)

Mixing ratio:	1 : 1
Mixing under vacuum:	40 sek.
Working time at 23°C:	approx. 4 min.
Curing time at 23°C:	approx. 30 min.
Tensile strength:	approx. 2,5 MPa
Elongation at break:	approx. 200 %
Tear strength:	approx. 7,0 N/mm
Shore A hardness:	18 - 20

2 x 250 g	Components A + B	REF 101100
2 x 1 kg	Components A + B	REF 101101



## Marmogel Duplicating gel, green

An elastic duplicating material for use with gypsum models, gypsum and phosphate bound investments. Marmogel is a reversible hydrocolloid manufactured from high quality, natural ingredients and stabilizing substances.

6 kg

REF 200440

## Dispensing pump

- plastic dispensing pump inclusive lid, suitable for the 6 kg canister for the 1:1 duplicating silicones from SILADENT
- allows an exact weighing of duplicating silicones
- no dipping
- Colour coding of the lids (A/B)

for 6 kg canister	large aperture, white, comp. A	<b>REF 101512</b>
for 6 kg canister	large aperture, red, comp. B	<b>REF 101502</b>
for 6 kg canister	small aperture, comp. A+B	<b>REF 101530</b>



## DA 2000 evo 1:1 Dispenser unit for duplicating silicones

Conveys, doses and mixes the silicone fully automatically and provides exactly the desired material quantities at the push of a button. Fast locks available for 2x1 kg and 2x6 kg containers.

**The trick:** The flow rate can be individually regulated.

### DA 2000 evo includes:

- 10 mixing tips
- fast lock set for 2 x 1 kg
- fast lock set for 2 x 6 kg

Automatic dispenser unit DA 2000 evo 1:1	<b>REF 111508</b>
Disposable mixing tips, pack of 100, pink	<b>REF 111505</b>
Fast-lock with cover for 6 kg canister (A+B)	<b>REF 101513</b>





## Neutrasil Surfactants, Debubblizers

A special alcohol-based liquid for reducing the surface tension of silicone. Neutrasil enhances the flow properties of the investment and facilitates the fabrication of perfect duplicating models.

Not suitable for alginates, hydrocolloids and polyethers!

250 ml	pump spray bottle	<b>REF 101603</b>
1.000 ml	refill bottle	<b>REF 101604</b>



## Neutralit

A universal liquid for neutralising and wetting silicone, wax, metal and plastic surfaces. Neutralit does not form a film and is compatible with all silicone-based impression and duplicating materials.

Not suitable for alginates, hydrocolloids and polyethers!

250 ml	pump spray bottle	<b>REF 101601</b>
1.000 ml	refill bottle	<b>REF 101602</b>



## Gipsil

Surfactant based debubbler specially for pouring bubblefree gypsum models in silicone and polyether impressions.

250 ml	pump spray bottle	<b>REF 101605</b>
1.000 ml	refill bottle	<b>REF 101606</b>



## Spray bottle

For spraying Neutrasil, Neutralit, Gipsil surfactants (propellant-free).

250 ml	Spray bottle	<b>REF 504106</b>
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## Fixation device

Device for positioning the stabilizer when using the SILADENT flaskless duplicating procedure.

Fixation device	<b>REF 101701</b>
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## Duplicating cross

Device for flaskless duplication without the fixation device. A practical accessory when the duplicating material is to be vulcanised cured under pressure.



Duplicating cross

REF 101702

## Stabilizer, white

For stabilizing the silicone mould when using the SILADENT flaskless duplicating procedure.

Supplied in four sizes.



Size	1	57 x 44 mm	REF 101703
Size	2	62 x 48 mm	REF 101704
Size	3	66 x 55 mm	REF 101705
Size	4	72 x 60 mm	REF 101706

## Adhesive duplicating tape

Duplicating ring material for the flaskless SILADENT duplicating procedure.

40 m Adhesive duplicating tape

REF 101707



## Adhesive duplicating tape

with space-maintaining adhesive surface.

Adhesive tape with a thicker adhesive strip to allow for more space between the model and duplicating silicone.

25 m Adhesive duplicating tape with space-maintaining surface

REF 101708

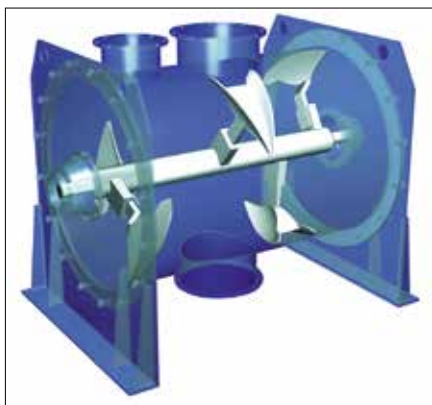
## Economical duplicating flasks

Plastic duplicating flask with 3 sections for cost saving, problemfree duplicating with Kontursil. Consists of a flask base, flask ring and stabilizer.

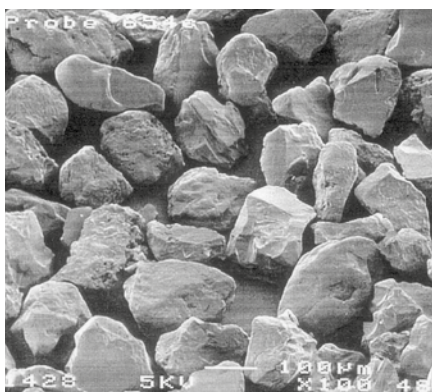
Supplied in two sizes.



Flask complete	size 1	REF 101709
Flask complete	size 2	REF 101713
Flask base single	size 1 (68 x 84 mm)	REF 101710
Flask base single	size 2 (73 x 91 mm)	REF 101714
Flask ring single	size 1 (68 x 84 mm)	REF 101711
Flask ring single	size 2 (73 x 91 mm)	REF 101715
Stabilizer with retention retainers, single	size 1	REF 101712
Stabilizer with retention retainers, single	size 2	REF 101716



The plough-share mixer mixes the components efficiently and swiftly.



Quartz, the main component, magnified one hundred times by a raster electron microscope.



## SILADENT investments

Essential components of the SILADENT technique are phosphate-bonded investments, specially developed for casting all types of dental alloys.

SILADENT investments, cover all applications, from fine-particle for use when casting CrCo partial frameworks or ne to ultra-fine for crown and bridge cases, including speed technique or for conventional burnout with different temperature hold-stages or for both.

Since the eighties SILADENT develops phosphate-bonded precision investments. Top priority has always been given to the requirements of dental technicians in their often hectic, work day. The result of this development is an established technique that has been copied many times.

In our ultra-modern mixing plants we manufacture our investments in mixing units for loading the blast furnaces batches. Our manufacturing process is based on high-quality raw materials and a balanced composition, ensuring long-term consistent product quality. Comprehensive production control and accurate documentation help us guarantee reliable results and consistently high precision of fit and surface quality. Not only the technical specifications but also the technical application of every production load batch are precisely controlled. This offers us and our customers complete confidence when using our investments. We command high standards from the all test results and manufacture only consistently high quality product demanded by our customers' requirements.

## Silavest® Press for pressable ceramics

A phosphate bonded, graphite free precision investment especially developed for all pressable ceramic systems in the speed casting technique. Silavest® Press can be used for the press to metal and press to zirconium system. This super fine investment guarantees a perfect fitting and very smooth surface.

- produces only very thin reaction layers, therefore it's recommended for pressing all kinds of lithium disilicate ceramics.
- excellent expansion control
- super fine powder, very creamy consistency and working properties
- the well-balanced grading curve guarantees very smooth surfaces of the ceramics
- fast preheating saves time

Silavest® Press should be used with SILADENT **liquid type 100!**

## Silavest® Evolution

A phosphate-bonded, graphite-free speed cast investment with exceptional properties for the crown and bridge technique. Silavest® Evolution is especially developed for casting BÄR-LIGHT® (selection GmbH -dental-) with a reduced preheating temperature of only 700 °C und a shortened holding time in the preheating furnace (approx. 30 minutes). Silavest® Evolution is also usable for other non-precious alloys.

Silavest® Evolution should be used with SILADENT **liquid type 100**.

5 kg carton 32 x 160 g sachets

REF 121921

## Silavest® uni 3D

SILAVEST® uni 3D is a phosphate-bonded, graphite-free speed casting investment with exceptional properties.

It is suitable for casting all dental alloys. It can be used for crowns and bridges made of precious and non-precious alloys and press ceramics (lithium disilicates).

Furthermore, crowns and bridges printed in 3D resin or milled from PMMA can be cast.

SILAVEST® uni 3D should be used with SILADENT **liquid type 100!**

5 kg carton 32 x 160 g sachets

REF 121931

20 kg carton 125 x 160 g sachets!

REF 121932

## Premium

Phosphate-bonded, graphite-free precision investment with a variety of uses and exceptional properties. For fast or conventional burnout. Suitable for crown and bridge cases and combi techniques as well as pressable ceramic systems.

- Universal application
- Expansion precisely regulated by using varying the liquid concentration
- Very smooth casting surfaces with an excellent and reproducible fit
- Well-proven for pressable ceramics
- Suitable for all dental alloys (except titanium!)
- Easy storage and better value because of its universal range of applications.

Premium should be used with SILADENT **liquid type 100!**

5 kg carton 32 x 160 g sachets

REF 101801

20 kg carton 125 x 160 g sachets!

REF 101802





## Presto Vest II

The logical further development of the predecessor product Presto Vest. Presto Vest II is a phosphate-bonded, special speed investment with a ultrafine corn size for crown and bridge work.

- Sufficient expansion even for CrCo alloys
- Excellent surfaces smoothness due to ultra-fine particles
- Fast preheating saves time
- Effortless divesting
- May be used with conventional rings or ringless. Expansion is unrestricted when ringless methods are utilized.
- Excellent t both with precious or non-precious alloys as well as palladium-based alloys
- Ideal ow properties
- Sufficient working time

Presto Vest II should be used with SILADENT **liquid type 100!**

5 kg carton	32 x 160 g sachets
20 kg carton	125 x 160 g sachets

REF 101911
REF 101912



## JET 2000

Precision investment for the CrCo rapid burnout procedure. JET 2000 can be placed in a furnace preheated to 1.050°C, thus solving problems of deadlines in the CrCo department. This investment is used whenever precision casting is required within time imposed deadlines.

- Precisely regulated expansion ensures excellent fit.
- Consistant quality castings with high precision in detail reproduction and surface smoothness.
- It's excellent ow properties makes investing easier and helps to prevent unwanted air bubbles.
- Easy divesting saves unnecessary labor and warpage.

JET 2000 should be used with SILADENT **liquid type 100!**

5 kg carton	28 x 180 g sachets
20 kg carton	112 x 180 g sachets
20 kg carton	50 x 400 g sachets
20 kg carton	4 x 5 kg aluminium bags

REF 102101
REF 102102
REF 102103
REF 102104



## Micro

A fine, phosphate-bonded, graphite-free precision investment. Micro is suitable for use as a CrCo investment and also used successfully in for crown and bridgework technique. As with Granisit®, expansion is regulated by using liquid types 100 or 140 liquids.

- A super-fine particle size ensures exact reproduction of detail and very smooth casting surfaces
- Expansion is precisely regulated by varying the concentration of the liquid
- Excellent ow properties

5 kg carton	28 x 180 g sachets
20 kg carton	112 x 180 g sachets
20 kg carton	50 x 400 g sachets
20 kg carton	4 x 5 kg aluminium bags

REF 102201
REF 102202
REF 102203
REF 102204

## Granisit®

Granisit® has been relied upon as the classic SILADENT CrCo investment for precision fit and smooth surface. Phosphate-bonded, graphite-free precision investment.

- Suitable for all precious, semi-precious and CrCo alloys
- The amount of expansion may be precisely regulated by varying the concentration of the expansion liquid
- Expansion is regulated using type 100 liquid. When investing CrCo telescopic crowns use type 140 liquid
- High marginal stability and reproduction of detail graphic accuracy
- Very smooth casting surfaces and excellent reproduction of details.

5 kg carton	28 x 180 g sachets	REF 102301
20 kg carton	112 x 180 g sachets	REF 102302
20 kg carton	50 x 400 g sachets	REF 102303
20 kg carton	4 x 5 kg aluminium bags	REF 102304



## Granisit® XF Speed

GRANISIT® XF Speed is a phosphate bonded, graphite free and very fine grain precision investment for partial denture frameworks. It is usable for the conventional and speed casting technique and is suitable for casting all types of dental alloys.

- super fine grain size, creamy consistency
- perfect fitting, very smooth casting surfaces, excellent reproduction of details
- easy divesting

Granisit® XF Speed should be used with SILADENT **liquid type 100!**

5 kg carton	28 x 180 g sachets	REF 102310
20 kg carton	112 x 180 g sachets	REF 102311
20 kg carton	50 x 400 g sachets à 5 kg	REF 102312



## Granisit® RPS

A super fine phosphate bonded, graphite free precision investment for the production of partial denture frameworks. Granisit® RPS is developed especially for the casting of 3D-printed and milled wax & resin parts.

- super fine corn size, creamy consistency
- perfect fitting, very smooth casting surface
- easy to divest

Granisit® RPS should be used with SILADENT **liquid type 100!**

20 kg carton	50 x 400 g sachets	REF 102332
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### Marmovest G Speed casting investment

for crown and bridge, white.

Gypsum-bounded and graphite-free precision investment for precious metals and low-melting alloys. Expansion can be regulated by the ratio of water used. Fine-grained. High degree of accuracy and surface quality. Can be put into a preheated furnace.

5 kg	bag	<b>REF 202501</b>
20 kg	4 x 5 kg aluminium bags	<b>REF 202505</b>



### Vesto Soldering compound

Many years of experience made this investment compound an absolute high-quality material. Embedded workpieces are not influenced, neither by expansion nor by contraction of the investment compound. Especially suitable for the soldering of secondary parts on model cast prostheses and of repairs. Vesto has an extremely high heat resistance and can be processed immediately using a large flame.

5 kg	paper bag	<b>REF 200270</b>
10 kg	bucket	<b>REF 200273</b>
25 kg	paper bag	<b>REF 200274</b>

## Expansion liquid, type 100

Standard expansion liquid for Granisit®, Micro, JET 2000, Granisit® XF Speed, Granisit® RPS, Presto Vest II, Premium, Silavest® Press, Silavest® Gold, TeleVest, Silavest® Evolution.

1 litre	bottle	<b>REF 102401</b>
3 litre	canister	<b>REF 102402</b>
10 litre	canister	<b>REF 102422</b>
25 litre	canister	<b>REF 102403</b>
opener for 3 litre canister expansion liquid type 100 (red canister)		<b>REF 503000</b>



## Expansion liquid, type 140

Special liquid contains a higher proportion of silica solution and other particles for higher expansion values. Type 140 is the standard liquid when fabricating CrCo telescopic work and also for other phosphate-bonded investments.

1 litre	bottle	<b>REF 102404</b>
3 litre	canister	<b>REF 102405</b>
10 litre	canister	<b>REF 102425</b>
25 litre	canister	<b>REF 102406</b>



## Liquid dispensing bottle

Premixed expansion liquid may be measured out exactly according to requirements using the measuring syringe in conjunction with liquid dispensing bottle.

- No further premixing required before each investing
- Allows more exact measurement of the different liquid concentrations



1000 ml liquid dispensing bottle	with a special cap for the measuring syringe	<b>REF 102407</b>
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## Universal Thermostat

Fixture for the refrigerator. This thermostat regulates the temperature of any refrigerator from 5 °C - 30 °C to. This allows investments and liquid to be stored at the recommended working temperature of 17 °C - 19 °C.

Universal Thermostat

REF 102499



## Wax adhesive

Residue-free adhesive for use with preformed wax patterns on unhardened SILADENT CrCo investment duplicate models. The wax adhesive should be applied thinly to ensure retention of the patterns on the duplicate model.

30 ml bottle

REF 102501

100 ml bottle

REF 102502



## Disposable ring tape

Adhesive disposable ring tape for use when investing CrCo. Advantages compared to conventional casting rings:

- The surface area of the investment mould's outer surface is increased considerably due to the corrugated effect of the ring material
- This increases the amount of heat absorbed during burnout
- The diameter of the mould is no greater than that of the duplicate model
- This saves investment and space within the furnace.

25 m Disposable ring tape

REF 102601



## Sprue formers

Made from flexible injection-molded plastic for multiple use as a sprue-former in CrCo rings.

Pack of 100

REF 112602

## SILADENT Silicone sleeves

All SILADENT investments may be used without metal rings. SILADENT silicone sleeves with plastic base plates are an economical alternative to metal rings and rubber bases. Using this method, the wax pattern is affixed to the plastic base plate with a sprue in the usual way. The silicone sleeve is placed over this and the wax pattern invested using the normal procedure. The base plate and silicone sleeve are removed prior to placing the ring in either a hot or cold furnace. With proper care, these accessories may be reused indefinitely.

- Heat treatment of metal rings is no longer required
- Ring liners are no longer required
- Divesting is much easier
- Considerable savings in time and material cost
- Allows overall uniform expansion of the investment
- The outer wall of the mould has a greater surface area due to the corrugated inner surface of the silicone sleeve
- Heat is absorbed faster, shortening the preheating procedure and allowing casting to be carried out sooner.



## Silicone sleeves, round

for economic, direct investing with the model base plate for crown and bridge work.

- Vertical groove structure on the inside of the ring increases the surface area.
- Setting expansion is not affected, ensuring an optimum fit of the casting.
- Use of a silicone sleeve ensures a more uniform heat uptake and controlled cooling of the mould.



Size 3	Round silicone sleeves, Ø inner: 45 mm	<b>REF 102609</b>
Size 6	Round silicone sleeves, Ø inner: 62 mm	<b>REF 102610</b>
Size 9	Round silicone sleeves, Ø inner: 75 mm	<b>REF 102611</b>

## Base plates, round

Sprue formers are supplied with these silicone sleeves in sizes 3, 6 and 9.



Size 3	Round base plates with sprue former, white	<b>REF 102612</b>
Size 6	Round base plates with sprue former, white	<b>REF 102613</b>
Size 9	Round base plates with sprue former, white	<b>REF 102614</b>



### Silicone sleeves, model form

For economic, direct investing with the model-shaped base plate. Also usable for the crowns and bridge technique.

- Vertical groove structure on the inside of the ring increases the surface area.
- Setting expansion is not affected, ensuring an optimum fit of the casting.
- Use of a silicone sleeve ensures a more uniform heat uptake and controlled cooling of the mould.
- The whole span of the pattern can be placed at the same distance from the mould wall, optimising the fit of the casting.

Size 0	Ø 70 x 55 mm	<b>REF 102617</b>
Size 1	Ø 75 x 60 mm	<b>REF 102603</b>
Size 2	Ø 80 x 65 mm	<b>REF 102604</b>
Size 3	Ø 90 x 55 mm	<b>REF 102605</b>



### Model-shaped base plate, white, model form

For CrCo and ringless direct-wax investing with the model-shaped silicone sleeve.

#### Base plate Model-shaped, without sprue-former

Size 0	Ø 70 x 55 mm	<b>REF 102622</b>
Size 1	Ø 75 x 60 mm	<b>REF 102606</b>
Size 2	Ø 80 x 65 mm	<b>REF 102607</b>
Size 3	Ø 90 x 55 mm	<b>REF 102608</b>

#### Base plate Model-shaped, with sprue-former

Size 0	Ø 70 x 55 mm	<b>REF 102618</b>
Size 1	Ø 75 x 60 mm	<b>REF 102619</b>
Size 2	Ø 80 x 65 mm	<b>REF 102620</b>
Size 3	Ø 90 x 75 mm	<b>REF 102621</b>



### Silicone Sleeves Ceram

For all well known pressable ceramic systems.

- The corrugated effect of the muel surface area will regulate the solidification of the ceramic
- Easy handling

Silicone sleeve ceram 100 (for 100 g)	<b>REF 102615</b>
Silicone sleeve ceram 200 (for 200 g)	<b>REF 102616</b>

## Muffle system Ceram

Muffle system for silicones sleeves Ceram (for lithium disilicates press systems), available in 2 sizes.

Each set contains 3 mould bases and 3 mould gauges.



Muffle system Ceram 100, Ø 13 mm, pack of 3 sets

REF 226001

Muffle system Ceram 200, Ø 13 mm, pack of 3 sets

REF 226002

## Plunger Aluoxid

- manufactured from high purity aluminium oxide (>99.8% Al<sub>2</sub>O<sub>3</sub>)
- reusable many times
- no micro cracks in the sprues
- Suitable for all common pressable ceramic systems



2 pieces Plunger Aluoxid, Ø 12 mm, length 37 mm

REF 102660

2 pieces Plunger Aluoxid, Ø 13 mm, length 35 mm

REF 102661

## Disposable Plunger

- No preheating of the plunger necessary
- Easy to handle
- no more time-consuming divesting of reusable plungers
- no micro cracks in the sprues
- suitable for all common pressable ceramic systems



50 pieces Disposable Plunger, Ø 12 mm

REF 102650

50 pieces Disposable Plunger, Ø 13 mm

REF 102655

## Deiberit® modeling pearl wax

A universal pearl wax for the crown and bridge technique.

- because of the homogenous pearl form it guarantees an optimal and economical usage
- burns out without residue
- very low shrinkage



100 g can Deiberit® modeling pearl wax, grey

REF 209250



### Conofix pint

Quick-drying die spacer for applying to certain areas of inner copings before duplicating. Intended specifically for use with conical and telescopic crown techniques using non-precious alloys and the SILADENT one-piece casting system.

30 ml

Conofix pint

REF 103206

### Rapid Trimmer ST 100

Pneumatic rapid trimmer – devests all types of investment material and dental gypsum excellently.

- This unit is virtually maintenance-free.
- This compressed air rapid trimmer requires an operating pressure of 5 - 6 bars.
- The higher the air pressure, the higher the power of impact.
- Includes three different chisel heads.



Rapid trimmer ST 100 (incl. 1 set chisel heads, 2 m compressed air hose with coupling nipples)

REF 103600

small chisel head, No. 1 (7 mm)

REF 103601

medium chisel head, No. 2 (9 mm)

REF 103602

large chisel head, No. 3 (11 mm)

REF 103603

Compressed air hose (2 m) with coupling nipple

REF 103604

### Nippers for investments

Breaking resistant plastic handles, stainless steel. No slipping of the hand into the beaks, easy to use, no danger of getting clamped.

Length 190 mm.



Nippers for investments

REF 103610

## TEK-1 SIL

Additional curing duplicating silicone with low hardness Shore A and high tear resistance, without any colour pigments. Especially developed for the TEK-1 system.

- High reproduction of duplicated model
- Models are easy to remove thru the low Shore A hardness
- Suitable for all silicone dispensers



### Technical data:

(DIN EN ISO 14356, Typ 2 - irreversible duplicating materials)

Mixing ratio:	1 : 1
Mixing under vacuum:	40 sec.
Working time at 23 °C:	> 6 min.
Curing time at 23 °C:	30 - 45 min.
Tensile strength:	approx. 3,0 MPa
Elongation at break:	approx. 360 %
Tear strength:	approx. 5,0 N/mm
Shore A hardness:	12 - 15

2 x 1 kg	component A+B	<b>REF 261001</b>
2 x 6 kg	component A+B	<b>REF 261011</b>
2 x 25 kg	component A+B	<b>REF 261020</b>

## TEK-1 VEST

TEK-1 Vest is a phosphate bonded, graphite-free precision investment for TEK-1 onepiece-casting and for partial denture framework in the speed casting technique.

- super fine corn size, creamy consistency
- perfect fitting, very smooth casting surface
- easy to divest

TEK-1 VEST should be used with Expansion liquid type 100!



5 kg	TEK-1 VEST carton (28 x 180 g)	<b>REF 261104</b>
20 kg	TEK-1 VEST carton (112 x 180 g)	<b>REF 261103</b>
20 kg	TEK-1 VEST carton (50 x 400 g)	<b>REF 261101</b>
1.000 ml	Expansion liquid type 100	<b>REF 102401</b>
3.000 ml	Expansion liquid type 100	<b>REF 102402</b>

## TEK-1 LEG

TEK-1 LEG is an universal alloy for all kinds of crown and bridge frameworks. The low hardness allows an easy preparation, milling and polishing. This exceptional alloy is optimal for primary crowns and the secondary constructions according to the SILADENT TEK-1 one-piececasting technology.

TEK-1 LEG can be used with all standard high-sintering bonding porcelains.

Please find the technical data on page 50



500 g	TEK-1 LEG	<b>REF 261200</b>
1.000 g	TEK-1 LEG	<b>REF 261210</b>



## TEK-1 the duplicating

The special duplicating technique for the TEK-1 system.

25 m Disposable ring tape		<b>REF 102601</b>
Base plate Model-shaped without sprue-former	Size 0	<b>REF 102622</b>
	Size 1	<b>REF 102606</b>
	Size 2	<b>REF 102607</b>
	Size 3	<b>REF 102608</b>
Duplicating cross		<b>REF 101702</b>
Stabilizer, white	Size 1	<b>REF 101703</b>
	Size 2	<b>REF 101704</b>
	Size 3	<b>REF 101705</b>
	Size 4	<b>REF 101706</b>



## TEK-1 Felt points

Mounted felt points for the prepolish of the interior surfaces of the secondary crowns in combination with the TEK-1 POL diamond polishing paste.

10 pieces	Felt points	<b>REF 261350</b>
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## TEK-1 POL

TEK-1 POL guarantees for mirror-finish interior surfaces of the secondary crowns. TEK-1 POL will add with the felt points..

200 g can	TEK-1 POL	<b>REF 261340</b>
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## TEK-1 Kemp brushes

For the final high polish of the interior surfaces of the secondary crowns in combination with the TEK-1 POL diamond polishing.

TEK-1 Kemp brushes, hard (white), pack of 10 pieces	<b>REF 261310</b>
TEK-1 Kemp brushes, soft (goat hair), pack of 10 pieces	<b>REF 261320</b>

## TEK-1 Polisher

Silicone Polishers for the prepolish of the secondary crowns;  
Colour: brown.

50 pieces TEK-1 Polisher

REF 261353

## TEK-1 Mandrel

Mandrels for the use with TEK-1 Polishers, 2,35 mm shank.

10 pieces TEK-1 mandrels

REF 261355

## TEK-1 WAX

A self-insulating and elastic dipping wax for the production of primary and secondary crowns in the TEK-1 technique.

200 g can TEK-1 Wax

REF 261330

## TEK-1 starter set

- TEK-1 VEST 20 kg
- TEK-1 WAX 100 g
- TEK-1 Liquid 3 litre
- TEK-1 SIL 2 x 1 kg
- TEK-1 LEG 100 g
- disposable ring tape
- duplicating cross
- stabilizers size 3 & 4, 2 of each
- base plates, size 2 & 3, one of each
- 1 x 100 ml measuring cylinder
- TEK-1 handbook

TEK-1 starter set only available after a TEK-1 training course REF 261500



**NEW**



## CoCr BioStar powder

CoCr BioStar Powder is a medical device for additive manufacturing in the laser melting process for dental frameworks.

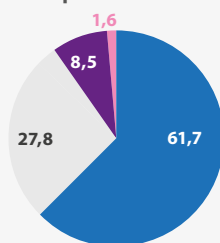
### Advantages

- Clinical proven composition on the base of Kera®-Disc
- Excellent material properties for many indications
- Approved for the most common 3D-Laser-Melting Systems
- Suitable for all high fusing veneering ceramics

### Indications:

- Crowns and bridges
- Partial dentures
- Implant supported restorations
- Secondary and Tertiary frames

### Composition



**Cobalt (Co)**  
**Chrome (Cr)**  
**Tungsten (W)**  
**Silicium (Si)**

### Technical data

Particle size (um)	10-30
Density (g/cm <sup>3</sup> )	8,55
Vickers hardness (HV10)	352
WAK 25-500 °C (10 <sup>-6</sup> K <sup>-1</sup> )	14,2
Tensile strength (R <sub>m</sub> MPa)	1.021
Yield strength (R <sub>p0,2</sub> MPa / N/mm <sup>2</sup> )	770
Modulus of elasticity (GPa)	196
Tensile elongation at break (%)	8

5 kg can

CoCr BioStar powder

REF 112820

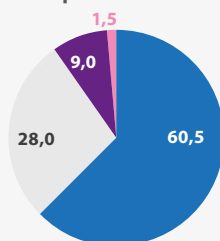
## remanium® star powder

remanium® star powder is ideal for the fabrication of clasp dentures and is comparable to the results of cast constructions. Dental restorations made of remanium® can be stress-relieved in approx. one hour without the need for inert gas or the use of special furnaces. This combines proven product quality with high cost-effectiveness and great flexibility.

### Advantages

- Ideal grain size distribution for many areas of application
- Smooth, dense framework surfaces thanks to optimised grain sizes
- Perfect suitability for model casting with scientifically tested elasticity for clasp constructions
- Very good ceramic adhesion for the crown and bridge technique thanks to customised CTE value

### Composition



**Cobalt (Co)**  
**Chrome (Cr)**  
**Tungsten (W)**  
**Silicium (Si)**

### Technical data

Particle size (um)	10-30
Density (g/cm <sup>3</sup> )	8,6
Vickers hardness (HV10)	395
WAK 25-500 °C (10 <sup>-6</sup> K <sup>-1</sup> )	14,4
Tensile strength (R <sub>m</sub> MPa)	1.170
Yield strength (R <sub>p0,2</sub> MPa / N/mm <sup>2</sup> )	800
Modulus of elasticity (GPa)	230
Tensile elongation at break (%)	11

5 kg can

remanium® star powder 10/30

REF 122816

## rematitan® powder, 15-45 µm

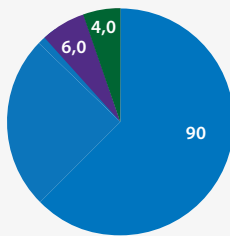
Universally applicable titanium-based dental alloy for laser melting systems.

- Compatible with all commercially available laser melting systems
- Clinically proven dental alloy
- Biocompatible
- Burn-on compatible

### Indications

rematitan® powder is particularly suitable for the manufacture of fixed and removable dental prostheses, applications and metal-ceramic frameworks, which can be veneered with the appropriate veneering ceramic for titanium alloys.

### Composition



**Titan (Ti)**  
**Aluminium (Al)**  
**Vanadium (V)**

2,5 kg can

rematitan® powder 15 - 45

REF 122817



### Technical data

Particle size (µm)	15 - 45 µm
Density (g/cm <sup>3</sup> )	4,4
Vickers hardness (HV5/30)	330
WAK 25–600 °C (10 <sup>-6</sup> K <sup>-1</sup> )	10,1
Melting interval (°C)	1.650
Yield strength (R <sub>p0,2</sub> MPa / N/mm <sup>2</sup> )	950
Modulus of elasticity (GPa)	130
Tensile elongation at break (%)	10

**Technical data**

Proof stress 0,2 % (MPa):	609
Elongation at rupture (%):	6,2
Modulus of elasticity (GPa):	200
Vickers hardness HV 10:	390
Density (g/cm <sup>3</sup> ):	8,3
Melting range (°C):	1.340 - 1.400
Casting temperature (°C):	1.450
Recommended investment:	Granisit® Micro Jet 2000 Granisit® XF Speed Granisit® RPS

**Technical data**

Proof stress 0,2 % (MPa):	545
Elongation at rupture (%):	6,0
Modulus of elasticity (GPa):	209
Vickers hardness HV 10:	394
Density (g/cm <sup>3</sup> ):	8,3
Melting range (°C):	1.321 - 1.407
Casting temperature (°C):	1.460
Recommended investment:	Granisit® Micro Jet 2000 Granisit® XF Speed Granisit® RPS

## Modiral® S

**Area of application:**

Non precious alloy based on cobalt for removable dentures acc. DIN EN ISO 22674, type 5.

**Characteristics:**

Modiral® S is a universal alloy for partial denture frameworks with clasps. This universal alloy has an optimized flow-rating. The casted partials are easy to prepare and polish.

Modiral® S is very corrosionresistant and free of beryllium, indium and gallium.

**Composition:** Co 62,0%, Cr 31,0%, Mo 5,0%

**Other <1%:** Si, C, Mn, Fe

1.000 g Modiral® S

REF 102801

## Biral 2000 H

**Area of application:**

Non precious alloy based on cobalt for removable dentures acc. DIN EN ISO 22674, type 5.

**Characteristics:**

Biral 2000 H is a partial framework alloy especially for combined prosthetics and partials with clasps. The technical properties allow thin constructions with a high stability and strength.

Biral 2000 H is very corrosionresistant and free of beryllium, indium and gallium.

**Composition:** Co 63,0%, Cr 29,0%, Mo 6,5%

**Other <1%:** Si, C, Mn, Fe

1.000 g Biral 2000 H

REF 102802

## V-Alloy II

### Area of application:

Non precious alloy based on cobalt for removable dentures acc. DIN EN ISO 22674, type 5.

### Characteristics:

V-Alloy II is a universal alloy for all kinds of partial denture frameworks. This alloy has optimized elastic properties and allows a perfect deformation for the clasps.

V-Alloy II is very corrosionresistant and free of like beryllium, indium and gallium.

**Composition:** Co 64,0%, Cr 29,0%, Mo 6,0%

**Other <1%:** Si, C, Mn, Fe



### Technical data

Proof stress 0,2 % (MPa):	579
Elongation at rupture (%):	6,3
Modulus of elasticity (GPa):	211
Vickers hardness HV 10:	386
Density (g/cm <sup>3</sup> ):	8,4
Melting range (°C):	1.350 - 1.406
Casting temperature (°C):	1.445
Recommended investment:	Granisit® Micro Jet 2000 Granisit® XF Speed Granisit® RPS

1.000 g

V-Alloy II

REF 102803

## V-Alloy FG

### Area of application:

Non precious alloy based on cobalt for removable dentures acc. DIN EN ISO 22674, type 5.

### Characteristics:

V-Alloy FG is a well-balanced alloy with excellent mechanical properties.

V-Alloy FG is perfectly suitable if highest elastic properties are required. The casting-sticks are produced under vacuum and have optimized casting attributes.

**Composition:** Co 63,0%, Cr 30,0%, Mo 5,0%

**Other <1%:** Si, Mn, C



### Technical data

Proof stress 0,2 % (MPa):	745
Elongation at rupture (%):	13,0
Modulus of elasticity (GPa):	200
Vickers hardness HV 10:	390
Density (g/cm <sup>3</sup> ):	8,3
Melting range (°C):	1.300 - 1.370
Casting temperature (°C):	1.510
Recommended investment:	Granisit® Micro Jet 2000 Granisit® XF Speed Granisit® RPS

1.000 g

V-Alloy FG

REF 128031



### Technical data

Proof stress 0,2 % (MPa):	570
Elongation at rupture (%):	10,0
Modulus of elasticity (GPa):	194
CTE 25-500 °C:	14,1 x 10 <sup>-6</sup> K <sup>-1</sup>
CTE 25-600 °C:	14,6 x 10 <sup>-6</sup> K <sup>-1</sup>
Tensile strength (MPa):	734
Vickers hardness HV 10:	286
Density (g/cm <sup>3</sup> ):	8,8
Melting range (°C):	1.309 - 1.417
Casting temperature (°C):	1.460
Max. oxide ring temperature (°C):	935
Recommended investments:	Silavest Evolution Premium Presto Vest II

## Keralloy® KB

### Area of application:

Non precious casting alloy based on cobalt for metal-ceramic accord. DIN EN ISO 22674, type 5.

### Characteristics:

Because of the low vickers hardness Keralloy® KB allows an optimal preparation and polishing. The alloy is very flexible during handling, ideal for crowns and bridges and milling work. It can be bonded with all standard high sintering porcelains.

Keralloy® KB is high corrosionresistant and free of beryllium, indium and gallium.

### Composition:

Co 64,0%, Cr 21,0 %, Mo 6,0 %, W 6,0 %

Other <1%: Si, Mn, Fe

100 g	Keralloy® KB	REF 102804
250 g	Keralloy® KB	REF 128041
500 g	Keralloy® KB	REF 102805
1.000 g	Keralloy® KB	REF 128051



### Technical data

Proof stress 0,2 % (MPa):	475
Elongation at rupture (%):	8,0
Modulus of elasticity (GPa):	223
CTE 25-500 °C:	14,1 x 10 <sup>-6</sup> K <sup>-1</sup>
CTE 25-600 °C:	14,5 x 10 <sup>-6</sup> K <sup>-1</sup>
Tensile strength (MPa):	-
Vickers hardness HV 10:	365
Density (g/cm <sup>3</sup> ):	8,6
Melting range (°C):	1.350 - 1.385
Casting temperature (°C):	1.485
Max. oxide ring temperature (°C):	1.050
Recommended investments:	TEK-1 Vest

## TEK-1 LEG

### Area of application:

Non precious casting alloy based on cobalt for metal-ceramic accord. DIN EN ISO 22674, type 4.

### Characteristics:

TEK-1 LEG is an universal alloy for all kinds of crown and bridge frameworks. The low hardness allows an easy preparation, milling and polishing. This exceptional alloy is optimal for primary crowns and the secondary constructions according to the SILADENT TEK-1 one-piece-casting technology.

TEK-1 LEG can be used with all standard high-sintering bonding porcelains.

### Composition:

Co 61,0%, Cr 27,0%, Mo 6,5%, W 5,0%, Si 1,0%

Other <1%: Mn, C, Fe

500 g	TEK-1 LEG	REF 261200
1.000 g	TEK-1 LEG	REF 261210

## Keralloy® N

### Area of application:

Non precious casting alloy based on nickel for metal ceramic accord. DIN EN ISO 22674, type 3.

### Characteristics:

Keralloy® N is a high corrosion resistant bonding alloy based on nickel. Keralloy® N is applicable for the laser technique and convinces through the low oxidation during the porcelain firings, also after several firing cycles.

Keralloy® N can be used with all standard high-sintering bonding porcelains and is free of beryllium, indium and gallium.

### Composition:

Ni 63,0%, Cr 27,0%, Mo 8,0%

Other <1%: Si, Nb



### Technical data

Proof stress 0,2 % (MPa):	362
Elongation at rupture (%):	26,0
Modulus of elasticity (GPa):	191
CTE 25-500 °C:	$13,7 \times 10^{-6} \text{ K}^{-1}$
CTE 25-600 °C:	$14,0 \times 10^{-6} \text{ K}^{-1}$
Tensile strength (MPa):	602
Vickers hardness HV 10:	180
Density (g/cm <sup>3</sup> ):	8,3
Melting range (°C):	1.298 - 1.344
Casting temperature (°C):	1.380
Max. oxide ring temperature (°C):	950
Recommended investments:	Silavest Evolution Premium Presto Vest II

1.000 g Keralloy® N

REF 128165

## Spezial-Lot

CrCo-based soldering rods for all CrCoMo alloys. The high melting range guarantees that the solder has a high diffusion depth. This produces very strong soldering joints. After soldering, porcelain is easily applied to the nickel-free, special solder.



Melting range: 1.071 - 1.260 °C  
CrCoMo Special Solder 2 mm  
20 g (approx. 80 mm x 2 mm incorporating flux)

REF 102807

Melting range: 992 - 1.185 °C  
CoNiCr Special Solder 2 mm  
10 g (approx. 80 mm x 2 mm incorporating flux)

REF 102879

## Laser welding rods

CrCo-based laser welding rods for biocompatible connections of CrCo castings with laser welding.

- Suitable for CrCo denture framework and bonding alloys
- Easy porcelain application
- Carbon-free



7 rods each approx. 0.5 g (0,5 mm x 250 mm)

REF 102806



## Sila-X-Press

The systematic further development of the SilaPress® family.

### Properties

- universal denture resin (pour & inject; repair)
- long processing width
- very good flowability
- patented microbead composition
- low polymerisation temperature less tension in the denture

### Denture base acrylic, self-curing acrylic

- Total upper and lower dentures using the injection method
- Total upper and lower dentures in the casting process
- Completion of model casting dentures
- partial or total relining (indirect application)
- Supplements and repairs

500 ml	Sila-X-Press liquid, colorless	REF 253051
1.000 g	Sila-X-Press powder, pink	REF 253060
1.000 g	Sila-X-Press powder, pink veined	REF 253061
1.000 g	Sila-X-Press powder, pink clear	REF 253062
1.000 g	Sila-X-Press powder, color C34	REF 253063
1.000 g	Sila-X-Press powder, clear	REF 253064



## SilaPress®

SilaPress® is the cold-curing all-rounder among all denture base acrylics and especially designed for dental technicians who like to cover all indications with only one product.

### Indications:

- Completion of model cast dentures
- partial or total relinings (indirect method)
- Additions and repairs

1.000 ml	SilaPress® liquid, colorless	REF 253000
1.000 g	SilaPress® powder, pink	REF 253010
1.000 g	SilaPress® powder, pink opaque	REF 253011
1.000 g	SilaPress® powder, transparent	REF 253012
1.000 g	SilaPress® powder, pink 07	REF 253013
1.000 g	SilaPress® powder, pink veined	REF 253014

**NEW**



## SilaPress® Vario

SilaPress® Vario is a cold-curing all-rounder among all denture base acrylics. The expanded processing time of this material allows the dental technicians a most stress-free handling.

### Indications:

- Completion of model cast dentures
- partial or total relinings (indirect method)
- Additions and repairs

1.000 ml	SilaPress® Vario liquid, colorless	REF 253100
1.000 g	SilaPress® Vario powder, pink	REF 253110
1.000 g	SilaPress® Vario powder, pink opaque	REF 253111
1.000 g	SilaPress® Vario powder, transparent	REF 253112
1.000 g	SilaPress® Vario powder, pink veined	REF 253113

## SilaDon N

SilaDon N is an economic, cadmium-free denture base resin that guarantees high quality results by using any known hot-curing polymerization technique.

### Indications:

Total upper and lower dentures by using the pressing-/packing technique



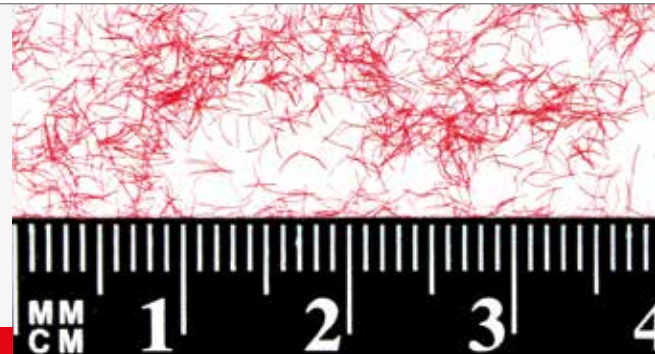
1.000 ml	SilaDon liquid, colorless	REF 253200
1.000 g	SilaDon N powder, pink	REF 253310
1.000 g	SilaDon N powder, pink veined	REF 253311

## Productoverview Denture prostheses

Product	complete dentures	partial dentures	repairs	casting process	injection process	pressing-/packing technique
Sila-X-Press	✓	✓	✓	✓	✓	
SilaPress®		✓	✓	✓		
SilaPress® Vario		✓	✓	✓		
SilaDon	✓	✓			✓	✓

## SilaPress® Veins

Viscose fibres to be mixed into denture resins for the individual design of a veined appearance.



SilaPress® Veins, 5g

REF 253500

## SilaPress Finisher, 75 ml

SilaPress Finisher is used to remove residual monomer on prosthetic work. SilaPress Finisher has a high cleaning effect and produces high-gloss prosthetic surfaces.

The spray enhances the finished work and gives the object a pleasant fresh taste. SilaPress Finisher has a bactericidal effect and is dermatologically tested.



SilaPress® Finisher, 75ml

REF 253505



## Aluminium Oxide

A quartz free high quality product with high blasting performance as a result of its extreme hardness and the shape of grain. Complies with industrial safety regulations. Other corn sizes are available on request.

25 kg paper bag	Aluminium Oxide 250 µm	<b>REF 200294</b>
25 kg carton	Aluminium Oxide 250 µm	<b>REF 202911</b>
10 kg canister	Aluminium Oxide 250 µm	<b>REF 200296</b>
5 kg canister	Aluminium Oxide 250 µm	<b>REF 200292</b>
25 kg paper bag	Aluminium Oxide 110 µm	<b>REF 200304</b>
25 kg carton	Aluminium Oxide 110 µm	<b>REF 203011</b>
10 kg canister	Aluminium Oxide 110 µm	<b>REF 200306</b>
5 kg canister	Aluminium Oxide 110 µm	<b>REF 200302</b>
25 kg paper bag	Aluminium Oxide 50 µm	<b>REF 200314</b>
25 kg carton	Aluminium Oxide 50 µm	<b>REF 203111</b>
10 kg canister	Aluminium Oxide 50 µm	<b>REF 200319</b>
5 kg canister	Aluminium Oxide 50 µm	<b>REF 200312</b>



## Glass Beads

For gentle cleaning and compacting of sensitive surfaces, German silicosis-free material, available in 50 µm and 125 µm.

25 kg paper bag	Glass Beads 50 µm	<b>REF 200344</b>
25 kg carton	Glass Beads 50 µm	<b>REF 203411</b>
10 kg canister	Glass Beads 50 µm	<b>REF 200346</b>
4,5 kg canister	Glass Beads 50 µm	<b>REF 200340</b>
25 kg paper bag	Glass Beads 125 µm	<b>REF 200334</b>
25 kg carton	Glass Beads 125 µm	<b>REF 203311</b>
10 kg canister	Glass Beads 125 µm	<b>REF 200340</b>
4,5 kg canister	Glass Beads 125 µm	<b>REF 200330</b>

## Pumice Powder

Quarz-free and therefore no risk of silicosis. Our pumice powder shows excellent working properties as a result of its highly abrasive action. It is an untreated and environment-friendly natural product which can be disposed of easily after use.



25 kg paper bag	Pumice Powder fine	REF 200354
20 kg carton	Pumice Powder fine	REF 200359
10 kg bucket	Pumice Powder fine	REF 200353
4 x 5 kg bags	Pumice Powder fine	REF 200351
5 kg bag	Pumice Powder fine	REF 200350
25 kg paper bag	Pumice Powder medium	REF 200364
20 kg carton	Pumice Powder medium	REF 200369
10 kg bucket	Pumice Powder medium	REF 200363
4 x 5 kg bags	Pumice Powder medium	REF 200361
5 kg bag	Pumice Powder medium	REF 200360
25 kg paper bag	Pumice Powder coarse	REF 200374
20 kg carton	Pumice Powder coarse	REF 200379
10 kg bucket	Pumice Powder coarse	REF 200373
4 x 5 kg bags	Pumice Powder coarse	REF 200371
5 kg bag	Pumice Powder coarse	REF 200370

## Pumice-Sep

- ready to use liquid for pumice powder and Poliresin®
- the liquid reaches a high bactericidal and fungicidal (e.G. Candida albicans) effect
- prevents effective unpleasant odours
- Delays efficiently and permanently dehydration of the polishing material
- Does not contain formaldehyde and is biodegradable



1.000 ml bottle	Pumice-Sep	REF 203801
5.000 ml canister	Pumice-Sep	REF 203802

## Pumice paste

- ready to use pumice paste for polishing of acrylic dentures
- the liquid reaches a high bactericidal and fungicidal (e.G. Candida albicans) effect
- prevents effective unpleasant odours
- Delays efficiently and permanently dehydration of the polishing-material
- Does not contain formaldehyde and is biodegradable



10 kg bucket	Pumice paste	REF 200383
5 kg bucket	Pumice paste	REF 200381



## Poliresin®

An antibacterial and odourless polishing compound specially developed for the processing of acrylic dentures. While working in the same way as pumice, Poliresin® polishes extremely abrasively and lasts 30 % longer. The unique, crystalline structure of Poliresin® ensures gentle polishing of the acrylic material, which saves a great deal of time in the subsequent high-gloss polish.

2 kg paper bag	Poliresin®	REF 200420
4 x 2 kg paper bags	Poliresin®	REF 200421
10 kg paper bag	Poliresin®	REF 200423
10 kg carton	Poliresin®	REF 200424

## Harz Pumice Mouse

Cleans lab instruments from cement and dirt particles. Abrasive polishing effect of wood, metal, acryl and marble. Carefully removes horned skin ridges, corns and cleans dirty hands. Suitable for removing paint and ink spots from skin areas.

80 g	Harz Pumice Mouse	REF 200380
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## Silapolish fluid

High gloss polishing paste for all dental alloys and acrylics

Polishing paste for a pore-free and high gloss polishing of metal and acrylic surfaces with a high range of applications.

- for acrylic dentures and composites
- for all non-precious (CoCr/NiCr) and all precious alloys
- water soluble and easy to clean from the polished surface

Silapolish fluid	125 ml	REF 103015
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## Silapolish paste

Universal polishing paste for all precious metal free dental alloys. For an easy and quick polishing of surfaces made of precious metal free alloys (CoCr/NiCr). Silapolish paste is perfect for an economical use and - because of its good water solubility - for removing rests of polishing paste from objects. Because of the constant grain size it is possible to achieve a homogenous surface removal with a deep polish.

Silapolish paste	1,34 kg	REF 103013
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## Conofix emery paper mandrel

These emery paper mandrels with 2.35 mm and 3.00 mm Ø shanks are for trimming telescopic units and conical crowns precisely and rapidly using a milling machine.



2,35 mm shank	Conofix emery paper mandrel, 0°	<b>REF 103223</b>
	Conofix emery paper mandrel, 2°	<b>REF 103224</b>
3,0 mm shank	Conofix emery paper mandrel, 0°	<b>REF 103227</b>
	Conofix emery paper mandrel, 2°	<b>REF 103228</b>

## Conofix emery paper

Prefabricated, self-adhesive emery paper strips in 3 grit sizes and 2 degrees of taper for fitting to Conofix mandrels.



120 µm à 50 pieces	Conofix emery paper, 0°	<b>REF 103209</b>
	Conofix emery paper, 2°	<b>REF 103210</b>
240 µm à 50 pieces	Conofix emery paper, 0°	<b>REF 103214</b>
	Conofix emery paper, 2°	<b>REF 103215</b>
600 µm à 50 pieces	Conofix emery paper, 0°	<b>REF 103219</b>
	Conofix emery paper, 2°	<b>REF 103220</b>

## SilaGrind - grinding tools

Aluminium oxide grinding tools for finishing dental materials.

- Bond: hard
- Grit size: medium
- RPM (min-1): 12,000 - 30,000



cylinder shape	SilaGrind grinding tools, 10 pcs.	<b>REF 103214</b>
	SilaGrind grinding tools, 100 pcs.	<b>REF 103215</b>
cone shape	SilaGrind grinding tools, 10 pcs.	<b>REF 103219</b>
	SilaGrind grinding tools, 100 pcs.	<b>REF 103220</b>



### Ultrasonic polishing paste cleaner

A water soluble cleaner based on a special agent for removing rests of polishing paste and materials with high fat contents on crowns, bridges, acrylic dentures & instruments which are used for ultrasonic units and uid pin cleaning systems. It also removes relining with zinc oxide paste free of residue by diluting with a higher concentration.

High concentrate 1:20

1 kg	Ultrasonic polishing paste cleaner	REF 251021
5 kg	Ultrasonic polishing paste cleaner	REF 251020



### Ultrasonic dental plaque cleaner

A water soluble cleaner based on a special agent for removing dental plaque from dental prosthesis. For the use in the dental laboratory, in the dentistry and the patient as well.

High concentrate 1:20

1 kg	Ultrasonic dental plaque cleaner	REF 251011
5 kg	Ultrasonic dental plaque cleaner	REF 251010



### Scantist 3D Occlusions spray

Powder-based marking spray for visualizing contact points and surfaces during fitting or incorporation of prosthetic work in the dental laboratory and dental practice. Thanks to the innovative spray nozzle, the color pigments are applied perfectly homogeneously and thinly and there are no drops or puddles on the object. The color pigments are easy and residue-free to remove.

- homogeneous, thin application
- new spray nozzle
- no drops
- no puddles
- easy cleaning

Scantist 3D Occlusions spray	75 ml spraybottle	REF 250036
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## Silaform®

Kneadable, condensation-curing, two-component silicone with paste hardener base. Multi-purpose laboratory silicone for fabricating overcasts-silicone keys, bite registrations, repair models and for blocking out undercuts and for as well as many other uses. Mixing ratio of components A and B: 100 : 3.

- Non-sticky, smooth initial consistency
- High final setting Shore A hardness > 70 after 24 hours
- Practical to mix using the contrasting coloured hardening paste
- Optically controlled mixing using colour control

1,5 kg Silaform®	+ 1 tube paste hardener	<b>REF 102701</b>
5 kg Silaform®	+ 2 tubes paste hardener	<b>REF 102702</b>
20 kg Silaform®	+ 8 tubes paste hardener	<b>REF 102740</b>
60 g Tube Silaform® paste hardener		<b>REF 102797</b>



## Silaform® 85 K

Kneadable, condensation-curing, two-component silicone with paste hardener base. For the same applications as Silaform®, but where higher Shore A is required. Mixing ratio of components A and B: 100 : 3.

- non-sticky, smooth initial consistency
- very high final setting Shore A hardness > 85 after 24 hours
- practical to mix using the contrasting coloured hardening paste
- optically controlled mixing using colour control

1,5 kg Silaform® 85 K	+ 1 tube paste hardener	<b>REF 102711</b>
5 kg Silaform® 85 K	+ 2 tubes paste hardener	<b>REF 102712</b>
20 kg Silaform® 85 K	+ 8 tubes paste hardener	<b>REF 102713</b>
60 g Tube Silaform® paste hardener		<b>REF 102797</b>



## Silaform® 90 extra-hard 1:1

Kneadable two-component A-silicone with a greatly increased final setting Shore A hardness of > 90 after 24 hours. Same applications as Silaform®, when high stability is required. Mixing ratio of components A and B: 1 : 1.

- Very low shrinkage < 0.01%
- Optimal working and hardening times according to requirements
- Exact reproduction of detail
- Cuts easily and is resistant to inorganic chemicals
- Excellent mechanical properties after hardening

2 x 1,5 kg Silaform® 90 extra-hard 1:1	<b>REF 102704</b>
2 x 5 kg Silaform® 90 extra-hard 1:1	<b>REF 127191</b>
2 x 9 kg Silaform® 90 extra-hard 1:1	<b>REF 102705</b>



## Silaform® 80 medium hard 1:1

Kneadable two-component A-silicone with a final setting of Shore A hardness 80 and a very low shrinkage < 0.01%.

Same application as Silaform® 90 extra hard 1:1 but with a reduced Shore A hardness.

2 x 1,5 kg Silaform® 80 medium hard 1:1	<b>REF 127600</b>
2 x 5 kg Silaform® 80 medium hard 1:1	<b>REF 127603</b>
2 x 9 kg Silaform® 80 medium hard 1:1	<b>REF 127606</b>





## Silaform® Gingiva

A-silicone for fabricating gingival masks. Silaform® Gingiva is an A-silicone with a high Shore A hardness for fabricating of gingival masks in the direct application in the impression and the indirect fabrication technique on the model.

- High final Shore A hardness > 70, very strong tear resistance
- short vulcanisation time of 7-8 minutes easy to cut and grind
- cartridges are usable for all standard 50 ml dispenser systems
- applicable for the complete crown and bridge technique and implantology

Silaform® Gingiva	pack of 2 x 50 ml + 12 mixing tips	<b>REF 127300</b>
Mixing tips	50 pieces	<b>REF 127302</b>



## Silaform® Gingiva soft

Same application as Silaform® Gingiva but with reduced Shore A hardness of 40.

Silaform® Gingiva soft	pack of 2 x 50 ml + 12 mixing tips	<b>REF 127310</b>
Mixing tips	50 pieces	<b>REF 127302</b>



## Silaform® Gingiva Sep

A separating agent spray for use with A-silicones.

Silaform® Gingiva Sep prevents different A-silicone impression materials bonding together, ensuring optimal separation of the two different impression materials after curing.

Silaform® Gingiva Sep	85 ml	<b>REF 127301</b>
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## Silafill blocking out material

Silafill is a kneadable and reusable blocking out material for blocking out undercuts from gypsum models. Also suitable for level during the model creations and for use with the SILADENT rearticulation system „Occlutop“. Silafill is compatible with all SILADENT duplications silicones.

Silafill-blocking out material	1.000 g box (approx. 1.000 ml)	<b>REF 102750</b>
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## Silatray

Light-curing tray material for fabricating functional trays, custom trays, bite-blocks, registration bite plates and for other uses in the laboratory. Each side must be polymerized for 4 minutes. Supplied in packs of 50 preformed templates for upper and lower arches in blue, pink and transparent.

- Easy manipulation and a long working time of approx. 20 min in daylight
- Excellent dimensional stability even in moist oral conditions
- High degree of elasticity
- Virtually no polymerisation shrinkage
- May be cured with all normal brands of UV and halogen light units
- No sticky layer if a normal brand of light-curing lacquer is applied

Silatray box à 50 blanks	blue	REF 102901
Silatray box à 50 blanks	pink	REF 102902
Silatray box à 50 blanks	transparent mint flavoured	REF 102903



## Digital Solar Scale

Operation with solar energy, excess energy is conserved and used under poorly lighting conditions, scales to max. 2.000 g.

0 - 100 g d = 0,5 g / 100 - 2.000 g d = 1 g	REF 101514
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## Digital Timer

Digital time counter (incl. battery) with max. 100 minutes count-down / up. Easy handling with magnet and clippe. Large digit, extra loud sound.

Digital Timer	REF 101515
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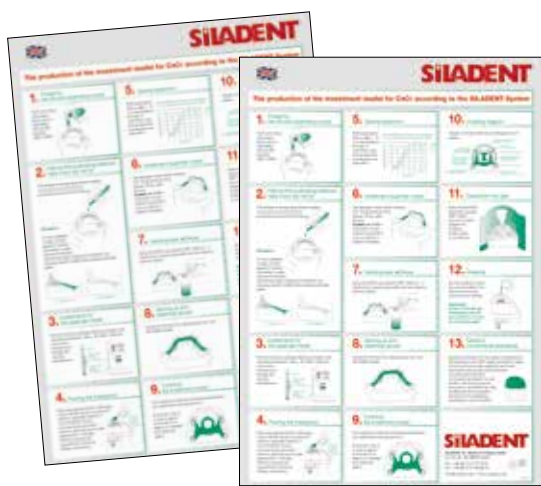
## The ten gypsum rules

The gypsum model is the basis for a good fit of the restoration. This poster provides a wealth of information to facilitate dental gypsum work, covering all stages from preparing to trimming gypsum models.

Poster, DIN A3

free

REF 902145



## SILADENT duplicating and investing techniques

Each stage of the SILADENT flaskless duplicating technique and the SILADENT system investment model fabrication technique are illustrated and described in detail.

Poster, DIN A4

free

REF 902002



## Handbook for accurate crown and bridge technique using the SILADENT system

With this handbook the dental technician gets a detailed guide for accurate crown and bridge technique according the SILADENT system. All working steps are described in details.

Handbook, DIN A4

36 pages (German/English)

REF 902004

## Handbook for the investment casting of partial denture frameworks using the SILADENT system

frameworks using the SILADENT system

With this handbook the dental technician gets a detailed guide for the creation of partial denture frameworks according the SILADENT system. The user gets all detailed informations, beginning from the flaskless duplicating system thru the investing until the casting.

Handbook, DIN A4

36 pages

REF 902005

## Handbook SilaPress resin pouring using the SILADENT system

The SilaPress handbook gives the technician a useful and detailed guideline when performing SilaPress resin pouring system.

Handbook, DIN A4

28 pages (German/English)

REF 902008



„Ecki“

Height: 13,5 cm

Ecki

REF 903130



„Backi“

Height: 12 cm

Backi

REF 903131



„Manni“

Height: 13,5 cm

Manni

REF 903132



„Rudi“

Height: 14 cm

Rudi

REF 903133



„Mike“

Height: 14 cm

Mike

REF 903134



„Angi“

Height: 13 cm

Angi

REF 903135



„Clement“

Height: 11 cm

Clement

REF 903136



„Marylin“

Height: 12 cm

Marylin

REF 903137



„Mick“

Height: 11,5 cm

Mick

REF 903138



„Joachim“

Height: 14 cm

Joachim

REF 903139



„Tommy“

Height: 15 cm

Tommy

REF 903141



„Dickie“

Height: 13 cm

Dickie

REF 903142



# exocad<sup>®</sup> DentalCAD

## The complete software solution for digital dentistry



- ✓ powerful dental CAD-Software
- ✓ great for beginners, yet powerful in the hands of an expert

The CAD software is known for its speedy operation and ease of use, helping you minimize training costs and maximize productivity. It is reliable and robust even when dealing with complex cases on a daily basis. Once you're familiar with the base functionality of our software, there's more to discover:


- ✓ Copy previous designs, or mirror healthy teeth
- ✓ Load 2D images during the design
- ✓ Take advantage of our advanced mesh editing and matching features
- ✓ Save real 3D PDF files, to send out design previews that can be viewed in 3D using a standard PDF viewer
- ✓ Exchange large 3D data sets with dentalshare

Already the standard version, exocad<sup>®</sup> DentalCAD covers a wide variety of indications:


- ✓ Anatomic crowns
- ✓ Anatomic copings
- ✓ Bridge framework
- ✓ Inlays
- ✓ Onlays
- ✓ Primary telescops
- ✓ Veneers
- ✓ Waxup based frameworks
- ✓ Attachments
- ✓ Model creator
- ✓ Splints
- ✓ full denture

The software grows with your needs: for advanced indications, such as implantology, a variety of add-on modules is available.

**exocad**  
**ChairsideCAD**  
optimized for clinical use:  
more automation and a simplified user experience.



**exoplan**  
Our powerful, user-friendly and open software solution for Implant treatment and surgical template design.





# exocad<sup>®</sup> DentalCAD

Perpetual License	Core Lab Version	Advanced Lab Bundle	Implant Lab Bundle	Ultimate Lab Bundle
CAD Basic version	✓	✓	✓	✓
Module Virtual Articulator	✗	✓	✓	✓
Provisional Module	✗	✓	✓	✓
Module TruSmile	✗	✓	✓	✓
Module Tooth Library ZRS	✗	✓	✓	✓
Module Implant (Abutments)	✗	✗	✓	✓
Bar Module	✗	✗	✓	✓
Module Dicom Viewer	✗	✗	✓	✓
Module Model Creator	✗	✗	✗	✓
Module Smile Creator	✗	✗	✗	✓
Module Full Denture	✗	✗	✗	✓
Module PartialCAD	✗	✗	✗	✓
Module Bite Splint	✗	✗	✗	✓
Module Jaw Motion Import / Zebris	✗	✗	✗	✓
Module In-CAD Nesting	✗	✗	✗	✗
Module Nesting (incl. In-CAD Nesting)	✗	✗	✗	✗

✗ is available as an option

# SilaPart CAD

## Construction Software

**Perfect fitting &  
highest finish quality**

### Basic software + telescopic module + texture recognition + Auto Design

#### SilaPart® CAD construction software

- ✓ flexible construction options
- ✓ creates open STL-File
- ✓ easy to learn
- ✓ highest precision
- ✓ includes VITA-dental data base
- ✓ no license fees
- ✓ no deformation in the framework
- ✓ digital system security
- ✓ less post processing due to best possible finish quality
- ✓ Expansion for combination technique and telescopic manufacturing is available

**REF 254002**

#### SilaPart® CAD Auto Design\*

- ✓ automatic construction based on drawn contours on the model

**REF 254021**

#### SilaPart® CAD telescopic-module\*

- ✓ flexible construction options
- ✓ controllable friction
- ✓ creates open STL-File
- ✓ less post processing due to best possible finish quality

**REF 254010**

#### SilaPart® CAD texture recognition\*

- ✓ model-cast structures and double-crown-module in a closed workflow
- ✓ adjustable friction with setting values
- ✓ offsets freely selectable
- ✓ preparation and design takeover through texture recognition

**REF 254020**

\* will work only in combination with the SilaPart® CAD basic software

**FREE TRAIL**



# SilaBite CAD

## Software for impression trays

### Easy to use & fast construction!

#### SilaBite - the digital solution for impression trays.

With SilaBite, creating impression trays has never been easier than ever before. Our software offers you an easy-to-use order management system and wizard-guided process that is easy to use even for users with no computer experience. Automatic undercut detection, additional block-out functions and fully automatic detection of the boundary line guarantee the highest precision and quality in impression taking.

SilaBite is the perfect digital solution for implantology, as it facilitates the creation of open base plates through the block-out function of cylinders. In addition, there is an individual area for additional hollow support (spacer), which can be freely determined at any point. The edge design is also freely dimensionable and thus enables a highly individual adaptation.

The quick construction of retentions or holes by marking a complete area is another useful function of SilaBite. It is also possible to insert rows of anterior teeth into the bite walls is possible.

Thanks to the possibility of importing STL, OBJ and PLY and open STL exports, SilaBite is compatible with a variety with a wide range of systems, allow-

ing you to seamless integration into your workflow. See the power of SilaBite for yourself and of SilaBite and benefit from the highest precision, quality and efficiency in impression taking. Order today and experience the digital future of impression technology!!

- ✓ „easy to use“ order management
- ✓ Wizard guided process, no computer experience necessary
- ✓ automatic undercut recognition
- ✓ additional blocking out function „flush out fully automatic detection of the boundary line
- ✓ block-out function cylinder for the construction of open base plates (implantology)
- ✓ individual area for additional hollowing (spacer) e.g. at the palatal suture, freely definable
- ✓ different edge design (dimensioning) freely determinable at any position
- ✓ quick construction of retentions or holes by marking a complete area
- ✓ punching in the patient's name / order number
- ✓ insertion of anterior tooth rows into the bite walls
- ✓ STL, OBJ, PLY import and open STL export



# MAGIC Model 3D

## Real saw cut models from the 3D printer ...

SILADENT offers the powerful CAD software **Magic® Model 3D**, which allows you to design saw-cut models for 3D printing in just a few minutes.

Independent of the design software used, **Magic® Model 3D** enables the production of real saw-cut models, starting with the **Profident evolution model system**.

With the wizard-guided user interface and the useful additional functions, such as the penetration protocol and the convenient saw-cut function, model production becomes extremely convenient and fast. In addition, you can label your models with your individual desired text and the printer customisation enables reproducible results in 3D printing.

With the possibility to create frequently used model types and save them with predefined properties as well as the import of STL, OBJ and PLY files and the open export of STL files, „Magic® Model 3D“ offers you uncomplicated model production.

The software is a one-time purchase and there are no further license costs, free updates included.

- ✓ Penetration protocol, e.g. as a grinding-in aid for early or interfering contacts.
- ✓ Low system requirements, runs on Windows™ 10 computers with their own graphics card.
- ✓ Convenient saw-cut function with definition of cut thickness, tilting of saw-cuts, placing several cuts next to or inside each other.
- ✓ The individual, storable printer adjustment makes it possible to save print parameters for different printers and resins.
- ✓ Create frequently used model types and save them with predefined properties.
- ✓ Useful additional functions such as smoothing, adding and removing material on the scan or model, loading CAD data for mock-up, integrating auxiliary bodies, engraving data into the model, etc.

**Simplify your digital model production with Magic® Model 3D!**

## smart optics mini

The smart optics mini offers a quiet and high-precision 3D scanning solution for beginners and professionals. SILADENT always supplies the scanner with all extensions. Of course, the smart optics mini has an interface to exocad DentalCAD® and OnyxCeph<sup>3™</sup> software.

- ✓ LR mode
- ✓ Articulator scan
- ✓ Auto-articulation
- ✓ Impression scan
- ✓ secondDie
- ✓ multiDie/multiDie+
- ✓ Automatic cutting plane
- ✓ Add scan
- ✓ Correction scan
- ✓ Monochrome texture scan
- ✓ Coloured texture scan
- ✓ Universal project
- ✓ multiCase project
- ✓ KFO project
- ✓ Bright & Dark Mode

The modern design of the scanner completely dispenses with a base plate, an advantage for installation and cleaning. The new fully automatic D-Desktop scanner made in Germany is the quietest 3D scanner on the market and can perform all common dental indications with precision. The open design allows users to work quickly in the scanning area. By removing the swivelling unit, the smart optics mini makes room for articulators. Even large articulators fit in effortlessly.

The smart optics Comfort Mode expands the range of functions of the smart optics mini enormously. It includes a speed update, which makes the scanner around 25% faster, as well as various features that significantly increase scanning comfort. In addition to the smart optics comfort mode, two additional extensions are available. The multiDie extension is essential for the multiDie and multiDie+ clipping modes and for multiCase projects, i.e. the scanning of individual segments from different treatment cases. The impression holder is an extension for scanning full impressions and Triple Tray® impressions.



smartoptics mini

REF 265028



MADE IN GERMANY | SOFTWARE  
OPTICAL DENTAL SCANNER  
ERGONOMIC | PRECISION



## Vinyl UXD

A SCANNER IN A CLASS OF ITS OWN

With the ambitious Vinyl UXD model (User Experience Dual) the name says it all, because the UX module of the high-performance scanner opens up a special world of operation.

- ✓ HR- and LR mode
- ✓ Selective camera mode
- ✓ Autoarticulation
- ✓ Triple Tray - impression scan
- ✓ Baltic Denture System (accessories required)
- ✓ Twin Tray model scan
- ✓ singleDie
- ✓ secondDIE
- ✓ multieDie
- ✓ multiCase
- ✓ Visual Z-axis control
- ✓ Automatic cutting plane
- ✓ Additional scan
- ✓ Correction scan
- ✓ Texture scan monochrome
- ✓ Texture scan color
- ✓ Universal project

The secret of the UX module is revealed inside the Vinyl UXD, which is hardly noticeable from the outside: Here, UX stereo cameras enable monitoring of the interior, and a separate UX projector projects light points and symbols that serve as a guide on the one hand, and buttons that can be operated intuitively by hand gesture on the other. For the UX module, the system panel takes on a second function: where models and prints would otherwise take up space, a UX projection surface is created. This means that the PC as the control centre for the software can confidently move into the background.

Thanks to the enlarged system plate of the Vinyl UXD, even voluminous articulators can be easily placed in the scanner. In terms of measurement technology, the Vinyl UXD is characterized by two 3.2 megapixel cameras and highly sensitive industrial 3D sensors with Blue Light technology, which ensure outstanding depth of field and scanning accuracy. This ensures, for example, a deeper detection of the interdental spaces. And the Vinyl UXD also scans particularly quickly.

Vinyl UXD

REF 265024



**MADE IN GERMANY | SOFTWARE**  
**OPTICAL DENTAL SCANNER**  
**ERGONOMIC | PRECISION**

## Vinyl High Resolution (HR)

The Vinyl HR impresses with the highest precision in global and detailed accuracy, which enables the user to scan any dental indication under the highest requirements.

- ✓ High-resolution camera
- ✓ Fully automatic Z-axis
- ✓ Monochrome & colour texture scan
- ✓ Blue-Light LED
- ✓ HR and LR mode
- ✓ Triple Tray® impression scan
- ✓ multiCase
- ✓ Touchscreen
- ✓ LED status display
- ✓ dental Scan
- ✓ Virtual articulator
- ✓ secondDie and multiDie
- ✓ Universal mode

A unique feature is that users can influence the scan quality themselves by activating and deactivating the high resolution mode. Depending on the application, the user can decide whether high-precision detail accuracy and therefore a higher data density is required or whether a higher speed with a lower level of detail is sufficient. The Vinyl HR is also predestined for large-span implant work or complex bar constructions, as the global accuracy is excellent even when HR mode is deactivated.

All modules are included with the Vinyl High Resolution without any additional costs for the laboratory. The user can therefore choose between various features depending on the project. In addition to the condylar articulator scan, the multiDie, Triple Tray® and secondDie scans can also be selected. You can also decide whether the models should be captured in monochrome or colour. The innovative Z-axis automatically moves the scan object to the correct height, meaning that the user only has to intervene in the scanning process in rare exceptional cases. The status display on the underside of the Z-axis also indicates whether the device is ready for operation or whether a prompt needs to be confirmed.



Vinyl High Resolution

REF 265023

CRANIUM-BASED MEASUREMENT

FAST | EASE OF USE

OPEN INTERFACE

smart optics



	<b>Mini</b> REF 265028	<b>Vinyl High Resolution</b> REF 265023	<b>Vinyl UXD</b> REF 265024
Measurement field ( X x Y x Z )		80 x 60 x 85 mm	
Camera pixel	1,6 MP	2,8 (1,4) MP	2x 3,2 MP
Accuracy	6 µm (according to ISO 12836)	4 µm (according to ISO 12836)	4 µm (according to ISO 12836)
Sensor technology	Stripe light triangulation with White-Light LED	Stripe light triangulation with Blue-Light LED	Stripe light triangulation with Blue-Light LED
Dimensions ( B x H x T )		455 x 430 x 420 mm	
Weight	9,5 kg	23 kg	24 kg
Power supply	100 - 240 V AC 50/60 Hz		
Connections	1x USB 1x IEC connector		

**Software features**

HR and LR mode	✘	✔	✔
Virtual articulator	✔	✔	✔
Triple Tray® impression scan	✔	✔	✔
secondDie	✔	✔	✔
multiDie	✔	✔	✔
multiCase	✔	✔	✔
Monochrome textur scan	✔	✔	✔
Color textur scan	✔	✔	✔
Universal mode	✔	✔	✔

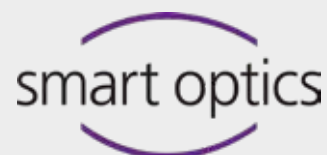
**Measurement time**

<b>Complete jaw</b>			
Scanning	14 sec	18 sec	12 sec
Matching	15 sec	17 sec	10 sec
Total	29 sec	35 sec	22 sec
<b>Single tooth</b>			
Scanning	30 sec	35 Sec	25 sec
Matching	12 sec	14 sec	6 sec
Total	42 sec	49 sec	31 sec
<b>3-unit bridge</b>			
Scanning	38 sec	50 sec	40 sec
Matching	18 sec	25 sec	15 sec
Total	56 sec	75 sec	55 sec

CRANIUM-BASED MEASUREMENT

FAST | EASE OF USE

OPEN INTERFACE



## Wet grinding reloaded.

### SilaMill N4 evo

Eight liquid nozzles which are arranged at the spindle cool the whole tool evenly from the tip to the shank at all machining stages.

→ Technical data page 82/83



PMMA PEEK ZrO<sub>2</sub> Composites LiSi<sub>2</sub> ZrO<sub>2</sub> Titan

4 axes 8 tools 3 blocks only wet grinding

#### Ideal for the in-office lab

The SilaMill N4 evo is ideal for in-office laboratories that want to produce the work without delay and avoid the higher costs associated with external production. With the combination of the wet grinding machine SilaMill N4 evo and a dry milling machine, users can work simultaneously and minimize the cleaning effort that most hybrid machines would require (excluding of course vhf's R5 with its revolutionary DirectCleanTechnology).

#### For a variety of indications

For crowns and bridges, inlays, onlays, abutments, telescopic crowns, veneers, table tops, etc.

#### Tool change in no time

The tool magazine can be inserted quickly and effortlessly with a single movement. The automatic changer offers space for up to 8 tools.

#### Exceptional precision

- ✓ Restorations in ultra HD
- ✓ Premium spindle with 4-fold hybrid ceramic ball bearings for maximum running smoothness
- ✓ 3 microns repetition accuracy

#### Sophisticated design

- ✓ Eight fluid nozzles for even tool cooling
- ✓ Highest rotational speeds of up to 80,000 RPM with 800 watts of power
- ✓ Heavy industrial quality

#### Absolute independence

- ✓ 38 block materials from 20 manufacturers – and rising
- ✓ 1,300+ titanium and CoCr prefabricated abutment blanks from 11 manufacturers
- ✓ Ideal for labs and in-office labs

#### University validated results

- ✓ Researchers at University of Washington confirmed exceptional precision of – 10 µm and + 26 µm with milling of titanium custom abutments

#### Maximum economy

- ✓ Work on up to 3 blocks with 45 mm length at the same time
- ✓ Automatic changer for 8 tools
- ✓ Webcam in working chamber for remote monitoring
- ✓ Ethernet interface for stable connection
- ✓ Removable coolant tank
- ✓ DentalCAM software with DirectMill function – included in scope of delivery and without license fees



Tomorrow's leading technology.  
Available today.

## SilaMill Z4

Precise. Fast.  
Independent.  
Economical.

→ Technical data page 82/83

4 axes    6 tools    1 block    only wet    grinding

PMMA    PEEK    ZrO<sub>2</sub>    Composites    LiSi<sub>2</sub>    Titan

### The Z4: Groundbreaking

The digital workflow makes it happen: you and your patients can benefit from more pleasant treatments with first-class restorations in just one session. The Z4 is an investment that will pay off for you: high-quality restorations with maximum independence. The number of machinable block materials constantly increases as well as the number of scanners and CAD software packages that are validated with the Z4.

From the intraoral scanner to the milling machine, users work with a single interface and therefore only need to familiarize themselves with one software package. This is the convenience of completely integrated workflows!

### The new standard in quality

When it comes to wet machining blocks, the Z4 sets unprecedented quality standards. Fabricate glass-ceramic, PMMA, zirconia and composite restorations in mere minutes and finish highly accurate prefabricated titanium abutments.

### Efficiency that is second to none

No external compressed air supply necessary. Only requires clean water. The block is clamped in two seconds. With the Z4, you can work with unparalleled efficiency.

### Highest precision

- ✓ Milling and grinding in ultra HD
- ✓ Proven industrial quality
- ✓ 3 microns repetition accuracy

### Extremely economical

- ✓ Clear water – no additives necessary
- ✓ Mill screw-access channels, to save costs for "meso" blocks
- ✓ Automatic changer for 6 tools
- ✓ Self-opening working chamber door and drawer
- ✓ Easy to learn, easy to operate
- ✓ CAM software included/Tool starter set included

### Fastest production

- ✓ Restorations in under 10 minutes
- ✓ 2-second block insertion
- ✓ 100,000 RPM electrical high frequency spindle

### Complete independence

- ✓ 38 block materials from 20 manufacturers – and growing
- ✓ 800+ prefab titanium abutment blanks from 11 manufacturers
- ✓ Validated with all established scanners and design software
- ✓ Fully integrated workflow with TRIOS Design Studio (3Shape), DWOS chairside (Dental Wings) and exocad ChairsideCAD\*
- ✓ Integrated PC with touch screen and Wi-Fi – no laptop or tablet necessary
- ✓ Built-in compressed air – no compressor needed

\* Material and indication availability may vary by CAD provider. Full range of indications and materials available in STL workflow.

## Dry milling with a plus.

### SilaMill T5 / T5 evo

In addition to the three linear axes in x, y and z, two rotary axes ensure many and varied machining options.



→ Technical data page 82/83

PMMA PEEK ZrO<sub>2</sub> Composites CoCr Gips

5  
axes

16  
tools

1  
blank

dry

milling

**Proven quality now even better:** with the dental milling machine SilaMill T5 evo, you will achieve perfect results. Process a wide range of materials and indications (blanks up to 40 mm) with five axes. Revolutionary technologies, such as tool-free blank clamping and an integrated ionizer, help you attain top-quality results.

#### Unparalleled precision

- ✓ Restorations in ultra HD
- ✓ Premium spindle with 4-fold hybrid ceramic ball bearings for highest running accuracy
- ✓ 3 microns repetition accuracy

#### Powerful and robust

- ✓ Mills the toughest materials on the market, incl. CoCr
- ✓ Powerful 820 watt spindle and 60,000 RPM
- ✓ Heavy industrial quality for maximum stiffness
- ✓ Solid cast body for the lowest vibrations

#### Maximum independence

- ✓ Unlimited material accessibility in 98 mm disc format, separate block and prefab abutment holders available
- ✓ Covers the broadest range of indications, due to  $\pm 35^\circ$  rotation angle in the 5th axis, and up to 40 mm blanks

#### Proven German reliability

- ✓ 100% engineered and manufactured in Germany
- ✓ Sophisticated sealing air concept to protect mechanics, electronics, and spindle
- ✓ Webcam for remote support
- ✓ Ethernet for stable long-range connection

#### Extremely economical

- ✓ Ionizer and improved air circulation for easy machine cleaning
- ✓ DirectDiscTechnology for revolutionary disc clamping
- ✓ Automatic changer for 16 tools
- ✓ Easy to operate DentalCAM with DirectMill function included – no annual fees

#### Special features of the SilaMill T5 evo

- ✓ Ionizer and improved air circulation for easy machine cleaning
- ✓ DirectDiscTechnology for revolutionary disc clamping (One-handed clamping)
- ✓ built-in webcam for remote support
- ✓ Ethernet connection for stable long-range connection



## Redifing milling

### SilaMill R5

10 Discs  
 60 Blocks  
 60 Prefab Abutments  
 blank changer for 10 blanks  
 Direct Technology

→ Technical data page 82/83

5 axes      16 tools      10 blanks      dry & wet      grinding & milling

PMMA   PEEK   ZrO<sub>2</sub>   Composites   LiSi<sub>2</sub>   CoCr   Titan   Gips

With the new high-end R5 dental lab machine, SILADENT has developed a highly automated milling and grinding machine with a tenfold blank changer for both wet and dry machining, bringing revolutionary approaches to the lab. It combines utmost precision with maximum stability regardless of material – all with a minimal footprint.

Operating the machine is also incredibly simple thanks to various patent-pending technologies: With Direct Disc Technology, milling blanks can now be processed directly without any cumbersome fiddling with the tenter frames. The R5 can be used with a maximum variety of materials when it comes to discs, blocks and abutments and therefore provides perfect investment protection!

The ability to feed milling blanks up to 40 mm thickness via a blank changer and get right to work is another highlight. Even better is the generous tilt angle for the fifth axis of  $\pm 35$  degrees. The R5 thereby guarantees a maximum of indication variety and freedom of design.

#### Maximum Precision

- ✓ Restorations in ultra HD
- ✓ Water-cooled high-precision spindle
- ✓ 3 microns repetition accuracy

#### Powerful Robustness

- ✓ Mills and grinds the toughest materials on the market including all Ti and CoCr
- ✓ 800 watts of power and 80,000 RPM
- ✓ Heavy industrial quality

#### Absolute Independence

- ✓ Sheer unlimited material accessibility in 98 mm disc format, 30 block materials, and > 140 titanium and CoCr prefab abutment platforms
- ✓ Covers the broadest range of indications, due to  $\pm 35^\circ$  rotation angle in the 5th axis, and up to 40 mm blanks

#### Unmatched Reliability

- ✓ 100 percent engineered and manufactured in Germany
- ✓ Comprehensive sensor technology to monitor all vital system functions
- ✓ Two webcams for remote monitoring

#### Highly Economical

- ✓ One of the fastest machines on the market
- ✓ Revolutionary material loading with Direct Disc Technology
- ✓ Automatic changer holds up to 10 discs, 60 blocks, or 60 prefab abutment blanks
- ✓ Direct Clean Technology enables wet and dry on the fly: ionizer, self-cleaning and built-in dryer

## Dusk-till-dawn milling and grinding.

### SilaMill 5.8 Edition

8 Discs

24 Blocks

48 Prefab Abutments

16 Tools

3 Ionizers



→ Technical data page 82/83

PMMA PEEK ZrO<sub>2</sub> Composites LiSi<sub>2</sub> CoCr Titan Gips

5  
axes

16  
tools

8  
blanks

dry &  
wet

grinding  
& milling

The SilaMill 5.8 Edition is a highly versatile dental milling machine. It has five simultaneously operating axes, a blank changer for eight blanks and is designed for both dry and wet machining. With the optional wet grinding module, you can grind all common types of glass ceramic.

#### Five simultaneously operating axes

The second rotary axis (B axis) with a tilt angle of up to  $\pm 30$  degrees enables the precise milling of undercuts.

#### Non-stop machining

Thanks to the eightfold blank changer, you get performance that won't stop. The changer can be loaded with blanks via a small flap in the front and the correct blank for your milling job is then automatically inserted into the clamping device when needed. As a result, you can mill around the clock.

#### Highest precision

- ✓ Restorations in ultra HD
- ✓ Premium spindle with precision bearing, a powerful 600 watts and 60,000 RPM
- ✓ 3 microns repetition accuracy

#### Maximum variety

- ✓ Almost unlimited material accessibility in 98 mm disc format as well as 38 block materials and > 800 prefabricated titanium and CoCr abutment blanks
- ✓ Large indication diversity due to a  $\pm 30^\circ$  rotation angle in the 5th axis, and up to 30 mm blanks
- ✓ Optional wet-grinding module converts the S5 into a wet-processing machine

#### Tremendous stability

- ✓ Processes all types of materials, including CoCr, titanium, and glass-ceramics
- ✓ Solid cast-body for minimum vibrations

#### Outstanding reliability

- ✓ Day and night operation
- ✓ 100 % engineered and manufactured in Germany

#### Maximum efficiency

- ✓ Milling and grinding around the clock due to automatic changer for 8 discs, 24 blocks or 48 prefabricated abutments
- ✓ Automatic changer for 16 tools
- ✓ 3 ionizers neutralize the static charge of acrylic chips – for a clean working chamber
- ✓ Very easy to operate via DentalCAM software with DirectMill function – included in scope of delivery and without license fees



## For hybrid production

### SilaMill hybrid

automatic changer for 16 tools

→ Technical data page 82/83

5 axes

16 tools

1 blank

dry & wet

grinding & milling

PMMA PEEK ZrO<sub>2</sub> Composites LiSi<sub>2</sub> CoCr Titan Gypsum

#### 5 simultaneously operating axes

The second rotary axis (B-axis) with a rotary range of up to  $\pm 30$  degrees enables the milling of undercuts and thus opens up many new machining options.

#### Wide range of materials and indications

Processing of wax, resins, zirconium oxide and composites through to non-precious materials based on cobalt-chrome, titanium and glass ceramics. For crowns and bridges (also fully anatomical), inlays, onlays, abutments, telescopic crowns, model plates, model casts, occlusal splints, implant bars, veneers, table tops, etc.

#### Worldwide use

Flexible use thanks to wide-range switching power supply for 100 - 240 V and 50/60 Hz with country-specific mains plug. ANSI/UL 61010-1 certification for the USA and Canada.

#### High-performance and high-precision synchronised spindle

With 4-fold hybrid ceramic ball bearing and 300 watts rated power at continuous load.

#### Optional wet grinding module

The machines are prepared for connection of the wet sanding module. Liquid nozzles are already attached to the spindle to cool the tool during grinding. You can also grind glass ceramics in this way.

#### Machine bed made from a solid cast body

The machine bed made from a solid cast aluminium body ensures maximum stability and low-vibration operation.

#### Milling without prior knowledge

Very simple operation via the supplied DentalCAM CAM software with machining strategies specially adapted to grinding - no prior knowledge of milling or grinding required.

#### Sophisticated safety mechanisms

Protection of the danger zone by automatic safety locking of the front flap during processing. Protection of the mechanics from dust and swarf as well as reduced wear and maintenance thanks to the integrated workspace sealing air concept.

## Optimize your workflow.

### ProSplint e3

Well-designed and compact complete system for your optimized aligner production..

→ Technical data page 82/83



The ProSplint e3 is a state-of-the-art desktop milling machine specifically designed for optimized aligner production.

#### For dentists and orthodontists

With its precise and efficient operation, it is ideal for dentists and orthodontists who want to produce high-quality aligners.

#### Maximum productivity

The separation of ready-to-use aligners from thermoforming sheets is fully automatic with the ProSplint e3 and takes only a few seconds. This achieves a level of precision and quality that eliminates the need for time-consuming post-processing. This saves you the tedious and time-consuming process of cutting out and trimming your thermoformed rails and sustainably optimizes your production process.

#### Individual strategy profiles

The ProSplint e3 is equipped with the TrimCAD software, which can automatically determine the optimal trimline of the aligners. However, the software can also be set manually and saved as an individual strategy profile. In this way, the different preferences of different practitioners can be stored and retrieved at any time.

#### No complicated clamping

The machine has an adapter which is inserted during model creation and printed out directly. This eliminates the need for complicated clamping of the foils and the models can be inserted into the machine and easily exchanged in a single operation.

#### Aligner workflow

The ProSplint e3 is part of the overall system from al dente dental products for simple and economical aligner production. The machine is capable of processing high-transparency thermoforming foil for splints in the highest quality and works in combination with fast 3D printers for model production as well as light polymerization devices for the entire model material spectrum.

Overall, the ProSplint e3 is a reliable and user-friendly solution for aligner production that stands out for its quality, functionality and efficiency.



## SAME-DAY DENTISTRY

### SilaMill e4

Developed and manufactured entirely in Germany, the SilaMill e4 guarantees impressive manufacturing results and optimum reliability.

→ Technical data page 82/83

4 axes      7 tools      1 block      wet & dry      milling & grinding

PMMA    PEEK    ZrO<sub>2</sub>    Composites    LiSi<sub>2</sub>    ZrO<sub>2</sub>

Digitize your practice with the SilaMill e4. You and your patients can benefit from restorations in just one session of treatment

The new SilaMill e4 makes it so easy for you to get started with chairside production of dental restorations, and gives you maximum freedom. Combine the SilaMill e4 with your preferred intraoral scanner, any CAD software and materials that are appropriate for your individual patients. The SilaMill e4 is the heart of your workflow and produces the perfect restoration for you.

The integrated CAM software enables you to get started right away!

#### RELIABILITY MEETS PRECISION.

Developed and manufactured entirely in Germany, the SilaMill e4 guarantees impressive manufacturing results and optimum reliability. Despite its compact design, the machine comprises only high-quality industrial components in the housing.

With a machine weight of only 28 kg and no use of compressed air, the SilaMill e4 offers maximum flexibility in terms of installation. You can set the SilaMill e4 anywhere.

**True to the motto: unpack, connect, start milling!**

#### Innovative

- ✓ No compressed air required with the patent-pending AIRTOOL
- ✓ Machine design optimized for minimal weight
- ✓ Multi-compartment for cooling liquid tank or optional dry milling container
- ✓ Modular machine design to optimize servicing and maintenance

#### Reliable

- ✓ 100% developed and manufactured in Germany
- ✓ Optimum manufacturing results and high durability with only premium-quality industrial components

#### Fast & precise

- ✓ 800 W 60,000 rpm spindle
- ✓ 3 µm repetition accuracy
- ✓ Sturdy aluminum welded construction

#### Independent

- ✓ DENTALCAM software with open interface to CAD software and materials
- ✓ Virtually any intraoral scanners can be used
- ✓ Grinds and mills almost all block materials up to 45 mm long from numerous manufacturers
- ✓ A full range of materials for glass ceramics, composites, zirconia and plastic

No compressed air needed  
and many innovations.

## SilaMill e5

Optimize your digital workflow, enjoy maximum freedom and achieve perfect results with optimum efficiency.



→ Technical data page 82/83

PMMA PEEK ZrO<sub>2</sub> Composites LiSi<sub>2</sub> Gypsum

5  
axes

17  
tools

1  
blanks

dry

milling

The SilaMill e5 requires no compressed air; therefore, you have maximum freedom in the choice of the installation site, and you also benefit from minimal operating costs. The open system architecture of the SilaMill e5 makes your entry into the digital production of dental restorations quick and easy, and it fits perfectly into your workflows. The integrated CAM software enables you to get started right away!

**Plug & Mill: Unpack, connect, start milling!**

### No compressed air needed - due to AIRTOOL.

One great innovation of the SilaMill e5 is that it does not use compressed air: The SilaMill e5 requires neither an external compressed air connection nor an integrated compressor, which is only possible with our patent-pending AIRTOOL. The AIRTOOL turbine blades use the speed of the high-frequency spindle to generate a powerful air flow, which keeps the workpiece free from dust and chippings. They are removed by vacuum from a dust collector

### Innovative

- ✓ No compressed air required with the patent-pending AIRTOOL
- ✓ Machine design optimized for minimal weight
- ✓ C-holder for 90° machining of anterior teeth (coming soon)
- ✓ Modular machine design to optimize servicing and maintenance

### Reliable

- ✓ 100% developed and manufactured in Germany
- ✓ Optimum manufacturing results and high durability with only premium-quality industrial components

### Fast & precise

- ✓ 800 W 60,000 rpm spindle
- ✓ 3 µm repetition accuracy
- ✓ Cast aluminum body for low vibration in operation

### Independent

Mills almost all materials up to CoCr sintered metals in a 98.5 mm disc format, holders available for 110 mm discs and blocks

Maximum indication versatility with a rotating angle of  $\pm 35^\circ$  in the 5th axis and blanks with a thickness of up to 40 mm

DENTALCAM software with open interface to all scanners and materials



	SilaMill N4 evo REF 249693	SilaMill Z4 REF 249991	SilaMill T5 / T5 evo REF 249013 / 249691	SilaMill Hybrid REF 249501
<b>Fields of application</b>	Wet machining	Wet machining	Dry machining	Dry & wet machining
<b>Materials</b>	<ul style="list-style-type: none"> <li>✓ Glass ceramic</li> <li>✓ Composites</li> <li>✓ Titanium</li> <li>✓ Zirconium oxide</li> </ul>	<ul style="list-style-type: none"> <li>✓ Glass ceramic</li> <li>✓ Composites</li> <li>✓ Titanium</li> <li>✓ Zirconium oxide</li> </ul>	<ul style="list-style-type: none"> <li>✓ Resin / PEEK</li> <li>✓ Wax</li> <li>✓ Zirconium oxide</li> <li>✓ Composites</li> <li>✓ CoCr</li> <li>✓ Gypsum</li> </ul>	<ul style="list-style-type: none"> <li>✓ Resin / PEEK</li> <li>✓ Wax</li> <li>✓ Zirconium oxide</li> <li>✓ Nano-Composites</li> <li>✓ Glass ceramic</li> <li>✓ CoCr</li> <li>✓ Titanium*</li> <li>✓ Gypsum</li> </ul>
<b>Indications</b>	<ul style="list-style-type: none"> <li>✓ Crowns</li> <li>✓ Bridge frameworks</li> <li>✓ Inlays</li> <li>✓ Onlays</li> <li>✓ fully anatomical crowns and bridge frameworks</li> <li>✓ Abutments</li> <li>✓ Telescope crowns</li> <li>✓ Veneers</li> <li>✓ Table-Tops</li> </ul>	<ul style="list-style-type: none"> <li>✓ Crowns</li> <li>✓ Bridge frameworks</li> <li>✓ Inlays</li> <li>✓ Onlays</li> <li>✓ fully anatomical crowns and bridge frameworks</li> <li>✓ Abutments</li> <li>✓ Telescope crowns</li> <li>✓ Veneers</li> <li>✓ Table-Tops</li> </ul>	<ul style="list-style-type: none"> <li>✓ Crowns</li> <li>✓ Bridge frameworks</li> <li>✓ Inlays</li> <li>✓ Onlays</li> <li>✓ fully anatomical crowns and bridge frameworks</li> <li>✓ Abutments (nur CoCr)</li> <li>✓ Telescope crowns</li> <li>✓ Model plates</li> <li>✓ Model casting</li> <li>✓ Occlusal covers</li> <li>✓ Implantbars</li> <li>✓ Veneers</li> <li>✓ Table-Tops</li> </ul>	<ul style="list-style-type: none"> <li>✓ Crowns</li> <li>✓ Bridge frameworks</li> <li>✓ Inlays</li> <li>✓ Onlays</li> <li>✓ fully anatomical crowns and bridge frameworks</li> <li>✓ Abutments</li> <li>✓ Telescope crowns</li> <li>✓ Model plates</li> <li>✓ Model casting</li> <li>✓ Occlusal covers</li> <li>✓ Implantbars</li> <li>✓ Veneers</li> <li>✓ Table-Tops</li> </ul>
<b>No of axes</b>	4	4	5	5
<b>Rotation range of the axes</b>	A: + 190° bis - 10°	A: + 190° bis - 10°	A: ± 360° B: ± 35°	A: ± 360° B: ± 30°
<b>Spindel speed.</b>	bis 60.000 U/min	bis 100.000 U/min	bis 60.000 U/min	bis 60.000 U/min
<b>Dimensions</b>	360 x 451 x 471 mm	471 x 522 x 507 mm	450 x 530 x 630 mm	490 x 445 x 540 mm
<b>Weight</b>	50 kg	66 kg	91 kg	75 kg
<b>Power supply</b>	100 – 240 V   50/60 Hz   Socket separately secured (FI)			
<b>Compressed air demand</b>	4-8 bar   35 l/min - 50 l/min	-	6-8 bar   40 l/min - 50 l/min	6 bar   mind. 80 l/min
<b>Waranty</b>	dry & oil free 12 months			
<b>Flow rate suction</b>	x	x	2500 l/min	3000 l/min
<b>Room temp.</b>	18-25 °C   max. 32°C			
<b>Humidity</b>	max. 80%			

\* in combination with wet grinding option



SilaMill 5.8 Edition REF 249499	SilaMill R5 REF 249993	SilaMill e4 REF 249505	SilaMill e5 REF 249507	ProSplint e3 REF 249503
Dry & wet machining	Dry & wet machining	Dry & wet machining	Dry machining	Dry machining
<ul style="list-style-type: none"> <li>✓ Resin / PEEK</li> <li>✓ Wax</li> <li>✓ Zirconium oxide</li> <li>✓ Nano-Composites</li> <li>✓ Glass ceramic</li> <li>✓ CoCr</li> <li>✓ Titanium*</li> <li>✓ Gypsum</li> </ul>	<ul style="list-style-type: none"> <li>✓ Resin / PEEK</li> <li>✓ Wax</li> <li>✓ Zirconium oxide</li> <li>✓ Nano-Composites</li> <li>✓ Glass ceramic</li> <li>✓ CoCr</li> <li>✓ Titanium*</li> <li>✓ Gypsum</li> </ul>	<ul style="list-style-type: none"> <li>✓ Resin / PEEK</li> <li>✓ Wax</li> <li>✓ Zirconium oxide</li> <li>✓ Composites</li> <li>✓ Glass ceramic</li> </ul>	<ul style="list-style-type: none"> <li>✓ Resin / PEEK</li> <li>✓ Wax</li> <li>✓ Zirconium oxide</li> <li>✓ Nano-Composites</li> </ul>	<ul style="list-style-type: none"> <li>✓ thermoformed splints</li> </ul>
<ul style="list-style-type: none"> <li>✓ Crowns</li> <li>✓ Bridge frameworks</li> <li>✓ Inlays</li> <li>✓ Onlays</li> <li>✓ fully anatomical crowns and bridge frameworks</li> <li>✓ Abutments</li> <li>✓ Telescope crowns</li> <li>✓ Model plates</li> <li>✓ Model casting</li> <li>✓ Occlusal covers</li> <li>✓ Implantbars</li> <li>✓ Veneers</li> <li>✓ Table-Tops</li> </ul>	<ul style="list-style-type: none"> <li>✓ Crowns</li> <li>✓ Bridge frameworks</li> <li>✓ Inlays</li> <li>✓ Onlays</li> <li>✓ fully anatomical crowns and bridge frameworks</li> <li>✓ Abutments</li> <li>✓ Telescope crowns</li> <li>✓ Model plates</li> <li>✓ Model casting</li> <li>✓ Occlusal covers</li> <li>✓ Implantbars</li> <li>✓ Veneers</li> <li>✓ Table-Tops</li> </ul>	<ul style="list-style-type: none"> <li>✓ Crowns</li> <li>✓ Bridge frameworks</li> <li>✓ Inlays</li> <li>✓ Onlays</li> <li>✓ fully anatomical crowns and bridge frameworks</li> <li>✓ Abutments</li> <li>✓ Telescope crowns</li> <li>✓ Veneers</li> </ul>	<ul style="list-style-type: none"> <li>✓ Crowns</li> <li>✓ Bridge frameworks</li> <li>✓ Inlays</li> <li>✓ Onlays</li> <li>✓ fully anatomical crowns and bridge frameworks</li> <li>✓ Abutments</li> <li>✓ Telescope crowns</li> <li>✓ Model plates</li> <li>✓ Model casting</li> <li>✓ Occlusal covers</li> <li>✓ Implantbars</li> <li>✓ Veneers</li> <li>✓ Table-Tops</li> </ul>	<ul style="list-style-type: none"> <li>✓ Aligner and other splints</li> </ul>
5	5	4	5	3 + 1
A: ± 360° B: ± 30°	A: ± 360° B: ± 35°	A: + 190° bis - 10°	A: ± 360° B: ± 35°	B: ± 360°
bis 60.000 U/min	bis 80.000 U/min	bis 60.000 U/min	bis 60.000 U/min	bis 60.000 U/min
692 x 445 x 540 mm	580 x 695 x 600 mm	360 x 370 x 490 mm	472 x 484 x 734 mm	360 x 370 x 490 mm
95 kg	145 kg	28 kg	43 kg	25 kg
100 – 240 V   50/60 Hz   Socket separately secured (FI)				
6 bar   mind. 105 l/min	6-8 bar   100l/min - 110l/min	-	-	-
12 months				
3000 l/min	3500 l/min	2500 l/min	2500 l/min	x
10 °C - 35 °C				
max. 80%				



## SILENT powerCAM EC

### Advantages

- ✓ Reliable production process thanks to a low-maintenance EC motor with 5,000 guaranteed operating hours.
- ✓ Suitable for CAD-CAM systems requiring high suction performance due to a powerful motor with a max. flow rate of 4000l/min.
- ✓ High operating comfort thanks to bidirectional communication with the CAM system via PLC control.

### Details

- ✓ No dust bag change due to bag-free fine filter technology, including automatic filter cleaning.
- ✓ Safe disposal of fine milling dusts with the aid of a disposal bag.
- ✓ Very low operating noise of 54.3 dB(A).

### Technical data

Suction turbine power	1610 VA (230 V)
Volume flow (max.)	3984 l/min
Max. depression	257 hPa
Filter technology	Bag- free
Filter quality	Class M according to EN 60335-2-69
CAM interface	RJ 45 socket
Mains input fuse	2 x 15 A(T)
Number of suction hoses	1

### Properties

Dimensions	270 x 535 x 540 mm
Weight	18 kg
Suction fittings interior	42 mm Ø
Fill level dust collector	7 liter

SILENT powerCAM EC

REF 248815



## SILENT compactCAM

### Advantages

- ✓ No follow-up costs thanks to bagless dust collection.
- ✓ Low operating noise of max. 55 dB (A).
- ✓ 3x longer running time compared to conventional collector motors (guaranteed 1000 operating hours).

### Details

- ✓ Convenient operation of the automatic switch-on function using a key combination.
- ✓ Work without interruption thanks to uncomplicated motor change within a few minutes.
- ✓ Recommended for SilaMill e4 / e5

### Technical data

Suction turbine power	490 VA (230 V)
Volume flow (max.)	2500 l/min
Max. depression	219 hPa
Filter technology	Bag- free
Filter quality	Class M according to EN 60335-2-69
CAM interface	RJ 45 socket
Mains input fuse	8 A(T)
Number of suction hoses	1

### Properties

Dimensions	245 x 440 x 500 mm
Weight	13 kg
Suction fittings interior	35 mm Ø
Fill level dust collector	2 liter

SILENT compactCAM

REF 249810

## The suitable tools for your milling materials



Tools for high loads and significant longer life.

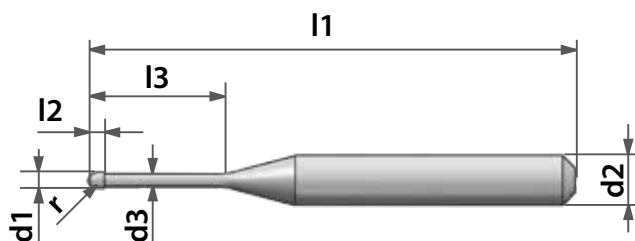
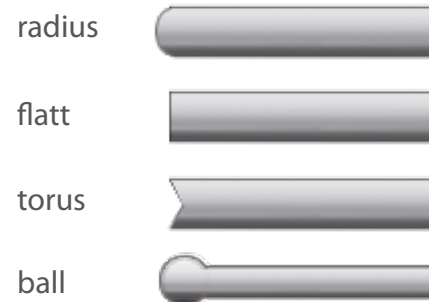
### The suitable tools for your milling materials

It doesn't matter if you use a 4- or 5-axes milling machine.

Depending on the purpose, we offer different lengths and geometries.

You can get further information about that topic in our online shop or directly from our technicians.








### cutting geometries



l1 = total length  
 l2 = cutting length  
 l3 = free grinding length  
 r = radius  
 d1 = cutting diameter  
 d2 = shaft diameter  
 d3 = free grinding diameter



# Overview milling tools

Material	Colorcode	SilaMill	Type
Universal cutter		SilaMill 4 / N4	Double-toothed radius cutter Flat grinded double tooth cutter Double-toothed radius cutter with coating Flat grinded double tooth cutter with coating
		SilaMill 5 / 5.8 / T5 / R5	Double-toothed radius cutter Flat grinded double tooth cutter Double-toothed radius cutter with coating Flat grinded double tooth cutter with coating
Zirconium oxide with special coating		SilaMill 4 / N4 / Z4	Double-toothed radius cutter Triple-toothed radius cutter
		SilaMill 5 / 5.8 / T5 / R5	Double-toothed radius cutter Triple-toothed radius cutter
Zirconium oxide with diamond coating		SilaMill 4 / N4 / Z4	Double-toothed radius cutter Double-toothed radius cutter Triple-toothed radius cutter Flat grinded double tooth cutter
		SilaMill 5 / 5.8 / T5 / R5 / e4 / e5	Double-toothed radius cutter Double-toothed radius cutter Triple-toothed radius cutter Flat grinded double tooth cutter Double-toothed radius cutter Triple-toothed radius cutter - AIRTOOL
Glass ceramic		SilaMill N4 / Z4 5 / 5.8 / R5	Radius grinder Torus grinder Radius grinder Torus grinder Radius grinder Torus grinder
Non-precious alloys on CoCr basis & Titanium only with wet grinding option		SilaMill 4 / N4 / Z4	Double-toothed radius cutter Double-toothed radius cutter Double-toothed torus cutter Double-toothed radius cutter Four-toothed radius cutter
		SilaMill 5 / 5.8 / T5 / R5	Double-toothed radius cutter Double-toothed radius cutter Double-toothed torus cutter Double-toothed radius cutter Four-toothed radius cutter
Wax and resins		SilaMill 4 / N4 / Z4	Single-toothed radius cutter Double-toothed radius cutter Single-toothed radius cutter Double-toothed radius cutter Flat grinded single tooth cutter
		SilaMill 5 / 5.8 / T5 / R5 / e4 / e5	Single-toothed radius cutter Double-toothed radius cutter Single-toothed radius cutter Double-toothed radius cutter Double-toothed radius cutter Flat grinded single tooth cutter Flat grinded single tooth cutter - AIRTOOL
Nanocomposites with special coating		SilaMill 4 / N4 / Z4	Double-toothed radius cutter Double-toothed radius cutter Single-toothed radius cutter Single-toothed radius cutter
		SilaMill 5 / 5.8 / T5 / R5	Double-toothed radius cutter Double-toothed radius cutter Single-toothed radius cutter Single-toothed radius cutter Single-toothed radius cutter - AIRTOOL
Aligner and resins		SilaMill e3	Single-toothed radius cutter Double-toothed radius cutter Single-toothed radius cutter

Ø Blade	Length Blade	Length	CAM-Code	REF
0.3	0.6	35	U030-R2-35	249150
0.5	1.5	35	U050-F2-35	249151
0.6	1.2	35	U060-R2-35	249152
1.2	5.0	35	U120-F2-35	249153
0.3	0.6	40	U030-R2-40	249263
0.5	1.5	40	U050-F2-40	249251
0.6	1.2	40	U060-R2-40	249252
1.2	5.0	40	U120-F2-40	249253
1.0	2.0	35	Z100-R2-35	249141
2.0	4.0	35	Z200-R3-35	249142
1.0	2.0	40	Z100-R2-40	249231
2.0	4.0	40	Z200-R3-40	249232
0.6	1.2	35	Z060-R2D-35	249244
1.0	2.0	35	Z100-R2D-35	249245
2.0	4.0	35	Z200-R3D-35	249246
1.2	5.0	35	Z120-F2D-35	249247
0.6	1.2	40	Z060-R2D-40	249240
1.0	2.0	40	Z100-R2D-40	249241
2.0	4.0	40	Z200-R3D-40	249242
1.2	5.0	40	Z120-F2D-40	249243
2.4	18.0	40	Z240-R2D-40	249239
2.0	4.0	40	Z200-R3D-40-T	249144
0.6	5.5	35	G060-R-35	249262
0.6	4.0	35	G060-T-35	249264
1.0	8.0	35	G100-R-35	249260
1.2	9.0	35	G120-T-35	249265
2.4	16.0	35	G240-R-35	249266
2.6	16.0	35	G260-T-35	249261
0.6	1.2	32	M060-R2-32	249300
1.0	3.0	32	M100-R2-32	249301
1.2	3.0	32	M120-T2-32	249303
2.0	4.0	32	M200-R2-32	249302
2.0	4.0	32	M200-R4-32	249304
0.6	1.2	35	M060-R2-35	249310
1.0	3.0	35	M100-R2-35	249311
1.2	3.0	35	M120-T2-35	249313
2.0	4.0	35	M200-R2-35	249312
2.0	4.0	35	M200-R4-35	249314
1.0	4.0	35	P100-R1-35	249115
1.0	2.0	35	P100-R2-35	249111
2.0	8.0	35	P200-R1-35	249116
2.0	4.0	35	P200-R2-35	249112
2.5	5.0	35	P250-F1-35	249114
1.0	4.0	40	P100-R1-40	249206
1.0	2.0	40	P100-R2-40	249201
2.0	8.0	40	P200-R1-40	249205
2.0	4.0	40	P200-R2-40	249202
2.4	18.0	40	P240-R2-40	249207
2.5	5.0	40	P250-F1-40	249204
2.5	5.0	40	P250-F1-40-T	249208
1.0	2.0	35	C100-R2-35	249121
2.0	2.0	35	C200-R2-35	249122
1.0	4.0	35	C100-R1D-35	249124
2.0	8.0	35	C200-R1D-35	249125
1.0	2.0	40	C100-R2-40	249211
2.0	4.0	40	C200-R2-40	249212
1.0	4.0	40	C100-R1D-40	249214
2.0	8.0	40	C200-R1D-40	249215
2.0	8.0	40	C200-R1D-40-T	249217
1.4	5.0	60	P140-R1-60	640145
3.0	10.0	60	P300-R2-60	640146
2.0	10.0	60	P200-R1-60	640147



### Keralloy® BioStar

Keralloy® BioStar is a precious metal free, chromium cobaltbased milling alloy according DIN EN ISO 22674, type 4. Keralloy® BioStar does not contain any beryllium, indium or gallium.

Keralloy® BioStar is easy to mill and guarantees a high biocompatibility. With shoulder.

Ø 98.5 mm with shoulder



### CoCr BioStar

CoCr BioStar is a precious metal free, chromium cobalt-based alloy for the dental application used in dental milling machines (CAD-CAM). It does not contain any nickel, beryllium orgallium.

One of the remarkable features is the high corrosionresistance and biocompatibility. CoCr BioStar is suitable for soldering. Its low hardness allows CoCr BioStar to be easily milled.Available with or without shoulder.

Ø 98.3 mm with shoulder



### TITAN BioStar - available in grade 5

#### TITAN BioStar °5

Biocompatible pure titanium milling blank for porcelain fused to metal (PFM) techniques. Titan BioStar admits easy laser welding andcan be fired using all usual porcelain indicated for titanium.

Ø 98.5 mm with shoulder

Product	REF H 8 mm	REF H 10 mm	REF H 12 mm	REF H 13.5 mm	REF H 15 mm	REF H 18 mm	REF H 20 mm	REF H 24.5 mm
Keralloy® BioStar	128410	128411	128412	128413	128414	128415	128416	-
CoCr BioStar	128200	128201	128202	128203	128204	128205	128206	128207
Titan BioStar °5	128260	128261	128262	128263	128264	128265	128266	-

## Marmoplast® BioStar

A milling gypsum blank with an extraordinary edge stability, produced from resin reinforced super hard stone. The mechanical properties are matched to meet the requirements of milling parameters and guarantees smooth and splinter-free surfaces. Cause of the special formulation the Preform models do not show any dust during the milling process, only gypsum chippings.

Colour: ivory

Ø 98.5 mm with shoulder



## Wax BioStar

A milling wax disc especially adjusted to the dental CAD/CAM technique. Thereby crowns and bridges can be virtually formed, milled and finally casted the conventional way. The wax is excellently machinable and burns without residue. This results in smooth casted surfaces. These optimized features of the wax give way to even very delicate forms excluding shrinkage or distortion of the milled object. The wax – stable in volume – permits absolutely exact margin finishings and fits. Up to 30 units can be milled out of one disc.

Ø 98.5 mm with shoulder



## SilaPart® BioStar

A special milling disc for the production of perfect partial denture frameworks.

- suitable for all open milling systems
- flexible and brake resistant
- precise and fast milling
- burns out without any residues
- also suitable for milling crowns and bridges

Ø 98.5 mm with shoulder



## PMMA BioStar

Dental milling discs based on PMMA (polymethylmethacrylate) which burn out residue-free and are developed for the casting technique. PMMA BioStar burns out without residue. PMMA BioStar is available in 3 different colours.

Ø 98.5 mm with shoulder





## Splint PMMA BioStar

PMMA for bite splints

Splint PMMA BioStar are transparent thermoplastic blanks based on polymethyl methacrylate (PMMA) and are suitable for the production of bite splints. Using the CAD/CAM process, you can achieve reproducible results with minimal post-processing effort.

Advantages:

- Biocompatible
- High stability through high impact modification
- Very good polishing properties
- Bonding to conventional cold polymers (PMMA) possible
- Free from bisphenol A

Ø 98.5 mm with shoulder



## DD BioSplint Flex

Copolyester for bite splints

DD Bio Splint FLEX are transparent thermoplastic blanks made of biocompatible copolyester for medical use. The material is characterized by high flexibility and high impact strength. Using the CAD/CAM process, you can achieve reproducible results with minimal post-processing effort.

Advantages:

- Biocompatible
- High degree of flexibility
- Good polishing properties
- Bonding to cold polymers (PMMA) possible with bonder
- Free from bisphenol A

Ø 98.5 mm with shoulder



## DD peek MED

Medical PEEK

DD peek MED are biocompatible milling blanks based on the high-performance polymer polyetheretherketone.

Advantages:

- Bonding to cold polymers (PMMA) possible with bonder
- Extremely resilient
- Several colors for different applications

Ø 98.5 mm with shoulder



## Poly BioStar ML

Poly BioStar ML blanks consist of multilayer acrylic polymer based on polymethyl methacrylate (PMMA) without toxic or allergenic materials (according to ISO 10993-5).

Material benefits:

- 5 layers polymerized – very natural aesthetic effect
- biocompatible – medical polymer material
- industrially polymerised – low residual monomer content
- high fracture resistance and continuous flexural load
- plaque resistant – low water absorption – dense structure
- good polishing properties and abrasion resistance
- available in 6 colours (A1, A2, A3, A3,5, B3, C2) and 2 heights (16 & 20 mm)

Ø 98.5 mm with shoulder

## Splint Memory

An adaptable, intelligent and durable blank for maximum wearing comfort.

Splint Memory compensates for inaccuracies with its patented 'thermemory' effect. The material becomes flexible at body temperature and thus adapts optimally to the tooth surface.

Advantages:

- exceptional wearing comfort
- unique flexibility
- self-adjusting
- no yellowing
- enduring
- highest biocompatibility
- ,snap on' splints available

Ø 98.5 mm with shoulder



## Splint Memory MSI

The world's first biomimetic milling disc in its class, which naturally prevents the adhesion of biofilms in the oral environment using pro3dure's unique MSI® technology. .

Advantages:

- exceptional wearing comfort
- eunique flexibility by thermomemory effect
- self adjusting
- no yellowing
- extreme durability
- long-lasting
- highest biocompatibility
- MSI® technology for the reduction of biofilms

Ø 98.5 mm with shoulder



Product		REF	REF	REF	REF	REF	REF	REF	REF	REF
		H 14 mm	H 15 mm	H 16 mm	H 18 mm	H 20 mm	H 22 mm	H 23 mm	H 25 mm	H 30 mm
<b>Marmorplast® BioStar</b>	ivory	-	-	-	-	-	-	-	250064	250061
<b>Wax BioStar</b>		250032	-	250033	250030	250035	-	-	250031	-
<b>SilaPart® BioStar</b>		-	-	250080	250081	250082	-	-	250083	250084
<b>PMMA BioStar transparent</b>	transparent	250050	-	-	250051	-	-	-	250053	250054
<b>PMMA BioStar blue</b>	blue	250055	-	-	250056	250057	-	-	250063	-
<b>PMMA BioStar ivory</b>	ivory	250058	-	-	250059	-	-	-	250062	-
<b>Splint PMMA BioStar</b>	transparent	-	250115	-	-	250116	-	-	250117	250118
<b>DD BioSplint Flex</b>	transparent	-	-	-	-	255492	-	-	-	-
<b>DD peek MED natural</b>	natural	255500	-	255501	255502	255503	-	255504	-	255521
<b>DD peek MED white</b>	white	255505	-	255506	255507	255508	-	255509	-	255522
<b>DD peek MED dentine</b>	dentine	255510	-	255511	255512	255513	-	255514	-	255523
<b>DD peek MED gingiva</b>	gingiva	255515	-	255516	255517	255518	-	255519	-	255524
<b>Splint Memory</b>	transparent	-	-	250127	-	250128	-	-	250129	-
<b>Splint Memory MSI</b>	ocean blue	-	-	250138	-	250139	-	-	-	-
<b>Poly BioStar ML</b>	A1	-	-	250220	-	250221	-	-	-	-
<b>Poly BioStar ML</b>	A2	-	-	250222	-	250223	-	-	-	-
<b>Poly BioStar ML</b>	A3	-	-	250224	-	250225	-	-	-	-
<b>Poly BioStar ML</b>	A3,5	-	-	250226	-	250227	-	-	-	-
<b>Poly BioStar ML</b>	A4	-	-	250250	-	250251	-	-	-	-
<b>Poly BioStar ML</b>	B1	-	-	250234	-	250235	-	-	-	-
<b>Poly BioStar ML</b>	B2	-	-	250232	-	250232	-	-	-	-
<b>Poly BioStar ML</b>	B3	-	-	250228	-	250229	-	-	-	-
<b>Poly BioStar ML</b>	B4	-	-	250236	-	250237	-	-	-	-
<b>Poly BioStar ML</b>	C1	-	-	250238	-	250239	-	-	-	-
<b>Poly BioStar ML</b>	C2	-	-	250230	-	250231	-	-	-	-
<b>Poly BioStar ML</b>	C3	-	-	250240	-	250241	-	-	-	-
<b>Poly BioStar ML</b>	C4	-	-	250242	-	250243	-	-	-	-
<b>Poly BioStar ML</b>	D2	-	-	250244	-	250245	-	-	-	-
<b>Poly BioStar ML</b>	D3	-	-	250246	-	250247	-	-	-	-
<b>Poly BioStar ML</b>	D4	-	-	250248	-	250249	-	-	-	-



## Ambarino High-Class

AMBARINO High-Class consists of a composite matrix of special polymers in which silicate glass fillers are embedded. The ratio between the two materials is optimized in such a way that the mechanical values correspond as best as possible to the natural properties of the tooth. The high-density composite matrix enables a X-ray visible, hardness-adapted and optimally elastic CAD/CAM material.

The mechanical strength of AMBARINO High-Class is almost equal to that of natural enamel. The flexural module of AMBARINO High-Class comes very close to the elasticity values of dentin. Tensions in the material, increased abrasion on the opposing jaw and damage to the antagonists can thus be avoided.

AMBARINO High-Class impresses with its aesthetic appearance and excellent polishability. The discs and blocks are highly resistant to chipping and cracking during grinding. This allows you to easily achieve excellent edge stability and smooth margins for brilliant restorations.

Indications:

- Table-Tops
- Inlays & Onlays
- Veneers
- Partial crowns
- Crowns and bridges (max. one bridge element)

Available as discs in 15 colors and 2 heights (15 mm, 20 mm) and as blocks in 5 variants and 7 colors.

Product		REF H 14 mm	REF H 15 mm	REF H 16 mm	REF H 18 mm	REF H 20 mm	REF H 22 mm	REF H 23 mm	REF H 25 mm	REF H 30 mm
Ambarino High Class Disc	A1	-	279001	-	-	279002	-	-	-	-
Ambarino High Class Disc	A1-MC	-	279003	-	-	279004	-	-	-	-
Ambarino High Class Disc	A2	-	279005	-	-	279006	-	-	-	-
Ambarino High Class Disc	A2-MC	-	279007	-	-	279008	-	-	-	-
Ambarino High Class Disc	A3	-	279009	-	-	279010	-	-	-	-
Ambarino High Class Disc	A3-MC	-	279011	-	-	279012	-	-	-	-
Ambarino High Class Disc	A3.5	-	279013	-	-	279014	-	-	-	-
Ambarino High Class Disc	A3.5-MC	-	279015	-	-	279016	-	-	-	-
Ambarino High Class Disc	B1	-	279017	-	-	279018	-	-	-	-
Ambarino High Class Disc	B1-MC	-	279019	-	-	279020	-	-	-	-
Ambarino High Class Disc	C2	-	279021	-	-	279022	-	-	-	-
Ambarino High Class Disc	D2	-	279023	-	-	279024	-	-	-	-
Ambarino High Class Disc	Veneer Bleach 1	-	279025	-	-	279026	-	-	-	-
Ambarino High Class Disc	Veneer Bleach 2	-	279027	-	-	279028	-	-	-	-
Ambarino High Class Disc	Veneer Bleach 2-MC	-	279029	-	-	279030	-	-	-	-

Product		REF	REF	REF	REF	REF	REF	REF	REF	REF
		A1	A2	A3	A3.5	B1	C2	D2	Veneer Bleach 1	Veneer Bleach 2
Ambarino High Class C-Block AHC14	6 blocks	279031	279032	279033	279034	279035	279036	279037	279038	279039
Ambarino High Class C-Block AHC16-L	5 blocks	279040	279041	279042	279043	-	-	-	-	-
Ambarino High Class C-Block AHC16-MC	5 blocks	279044	279045	279046	279047	-	-	-	-	-
Ambarino High Class C-Block AHC16-S	5 blocks	279048	279049	279050	279051	-	-	-	-	-
Ambarino High Class C-Block B40	2 blocks	279052	279053	279054	279055	279056	279057	279058	-	-

## Zirkon BioStar

Zirkon BioStar is suitable for substructures of any span. The opaque, high-strength material reliably masks discoloration. A perfect basis for subsequent veneering with the coloring liquids of the DD Shade Concept® in 16 VITA® shades and 3 Bleach shades. Colour: white.

Ø 98,5 mm with shoulder

- High strength
- High fracture toughness
- Perfectly suitable for aesthetic veneering
- Perfectly suitable for Hybrid abutments

3Y-TZP-A

1.150 (+/-200) MPa

measured according to  
DIN EN ISO 6872

## Zirkon BioStar Colour

Zirkon BioStar Colour is suitable for substructures of any span. The opaque, high-strength material reliably masks discoloration. The pre-colored material according to VITA® shades provides the perfect basis for restorations with a natural appearance.

Ø 98,5 mm with shoulder

- High strength
- High fracture toughness
- Perfectly suitable for aesthetic veneering
- Perfectly suitable for Hybrid abutments

Available in 5 colours (A1, A2, A3, A3.5, D2), each in 2 heights (14 mm, 18 mm)

3Y-TZP-A

1.150 (+/-200) MPa

measured according to  
DIN EN ISO 6872

## Zirkon BioStar Ultra

Zirkon BioStar Ultra is suitable for aesthetic restorations of any size. The material offers the perfect compromise between aesthetics and strength. In combination with the coloring liquids of the DD Shade Concept® 16 VITA® colors and 3 bleach colors can be precisely realized. Colour: white.

Ø 98,5 mm with shoulder

- Very high fracture toughness
- perfectly suited for fully anatomical (monolithic) crowns and bridges and cut back (one layer)

4Y-TZP

1.200 (+/-150) MPa

measured according to  
DIN EN ISO 6872

## Zirkon BioStar Ultra Colour

Zirkon BioStar Ultra is suitable for aesthetic restorations of any size. The material offers the perfect compromise between aesthetics and strength.

Available in 4 colours (A1, A2, A3, A3.5).





## Zirkon BioStar Ultra Multilayer

Based on Zirkon BioStar Ultra, Zirkon BioStar Multilayer blanks offer a smooth shade gradation from cervical to incisal.

Zirkon BioStar Multilayer is suitable for aesthetic restorations any span. The material offers the perfect compromise between aesthetics and strength. The integrated color gradient enables the efficient production of restorations with natural appearance .

**Ø 98,5 mm with shoulder**

- Very high fracture toughness
- Incisal and dentin layer + 2 transition layers = natural color gradient
- Perfectly suited for fully anatomical (monolithic) crowns and bridges and cut back ( one layer )

Available in 16 VITA shades, each in 3 heights (14 mm, 18 mm, 22 mm)

**4Y-TZP**

**1200 (+-150) MPa**

measured according to  
DIN EN ISO 6872



## Zirkon BioStar HT Smile

Zirkon BioStar HT Smile suitable for highly aesthetic restorations of up to three units. The high light transmission due to the increased proportion of the cubic phase in the cubic-tetragonal mixed structure and the stable mechanical properties are perfectly balanced. In combination with the coloring liquids of the DD Shade Concept ® , 16 VITA ® shades and 3 bleach shades can be precisely realized. Colour: white.

**Ø 98,5 mm with shoulder**

- More stable than lithium disilicate with comparable aesthetics
- Our favorite for the front teeth area
- Aesthetic finish with minimal effort
- very good ageing resistance

**5Y-TZP**

**700 (+-100) MPa**

measured according to  
DIN EN ISO 6872



## Zirkon BioStar HT Smile Colour

Zirkon BioStar HT Smile Colour are monochrome pre-coloured and highly translucent milling blanks. suitable for highly aesthetic restorations of up to three units. The high light transmission due to the increased proportion of the cubic phase in the cubic-tetragonal mixed structure and the stable mechanical properties are perfectly balanced. Colour: pre-coloured.

**Ø 98,5 mm with shoulder**

Available in 3 colours (A2, A3, A3.5)

**5Y-TZP**

**700 (+-100) MPa**

measured according to  
DIN EN ISO 6872

## Zirkon BioStar HT Smile Multilayer

Zirkon BioStar HT Smile Multilayer is suitable for highly aesthetic restorations up to three sections. The high light transmission through the increased Proportion of the cubic phase in the cubic-tetragonal mixed structure and the stable mechanical properties are perfectly balanced. The integrated color gradient enables the efficient production of Restorations with a natural appearance.

**Ø 98,5 mm with shoulder**

- More stable than lithium disilicate with comparable aesthetics
- Our favorite for the front teeth area
- Incisal and dentin layer + 2 transition layers = natural color gradient
- Aesthetic finish with minimal effort

Available in 16 VITA shades, each in 3 heights (14 mm, 18 mm, 22 mm)

**5Y-TZP**

**700 (+-100) MPa**

**16 +1 VITA® shades**

measured according to  
DIN EN ISO 6872



## DD cubeY® HL Zirkonoxid

DD cubeY® HL Zirkonoxid is suitable for the production of highly aesthetic restorations with large spans. The different translucencies and flexural strengths from cervical to incisal ensure stability and aesthetics. The hybrid layer from the „yellow -warm“ aesthetic line has precise layering and fits seamlessly into the row of teeth.

16 colors and three bleach colors according to the VITA® color scheme cover all common tooth colors and meet the highest aesthetic demands.

**Ø 98,5 mm with shoulder**

- Highest Precision through distortion-free material
- High process reliability in processing – unrestricted indication thanks to > 800 MPa in the incisal area
- Fast and economical for natural - looking fully anatomical ( monolithic) restorations

**5Y-TZP + 3Y-TZP**

**>800 MPa** Inzisalbereich  
**1050 (± 150 MPa)** Bodybereich

**16 +3 VITA® shades**



	Zirkon BioStar HT Smile			Zirkon BioStar Ultra			Zirkon BioStar / Zirkon BioStar Colour		
<b>Strength</b>	700(+100) MPa			1.200 (+150) MPa			1.150 (+200) MPa		
<b>Type &amp; Indication (ISO 6872)</b>	Type II, class 4  ≤ 3 units			Type II, class 5  ≥ 4 units			Type II, class 5  ≥ 4 units		
<b>Cubic Phase</b>	~ 50%			~ 30%			0%		
<b>Colours</b>	MULTILAYER	MONO-CHROM	WHITE	MULTILAYER	MONO-CHROM	WHITE	MONO-CHROM	WHITE	
	A2	A1	white	A2	A1	white	A1	white	
	A3	A2		A3	A2		A2		
		A3		B1	A3		A3		
		A3,5		B2	A3,5		A3,5		
		B2		B3	B2		B2		
		B3		B4	B3		D2		
		C2			C2				
		D2			D2				

## Format: Disc, Ø 98.5 mm +/- 1 mm with shoulder (for open milling systems)

Product	Colour	REF H 10 mm	REF H 12 mm	REF H 14 mm	REF H 16 mm	REF H 18 mm	REF H 20 mm	REF H 22 mm	REF H 25 mm
<b>Zirkon BioStar</b>	weiß	252001	252002	252003	252004	252005	252006	-	252008
<b>Zirkon BioStar Colour</b>	A1	-	-	252069	-	252075	-	-	-
	A2	-	-	252070	-	252073	-	-	-
	A3	-	-	252071	-	252077	-	-	-
	A3.5	-	-	252074	-	252078	-	-	-
	D2	-	-	252072	-	252080	-	-	-
<b>Zirkon BioStar Ultra</b>	weiß	-	-	252311	-	252313	252314	-	252315
	A1	-	-	252317	-	252319	252320	-	252321
	A2	-	-	252323	-	252325	252326	-	252327
	A3	-	-	252329	-	252331	252332	-	252333
	A3.5	-	-	252335	-	252337	252338	-	252372
<b>Zirkon BioStar Ultra Multilayer</b>	A1	-	-	252373	-	252374	-	252375	-
	A2	-	-	252356	-	252357	-	252358	-
	A3	-	-	252359	-	252360	-	252361	-
	A3,5	-	-	252376	-	252377	-	252378	-
	A4	-	-	252379	-	252380	-	252381	-
	B1	-	-	252362	-	252363	-	252364	-
	B2	-	-	252365	-	252366	-	252367	-
	B3	-	-	252368	-	252369	-	252370	-
	B4	-	-	252382	-	252371	-	252383	-
	C1	-	-	252384	-	252385	-	252386	-
	C2	-	-	252387	-	252388	-	252389	-
	C3	-	-	252390	-	252391	-	252392	-
	C4	-	-	252393	-	252394	-	252395	-
	D2	-	-	252396	-	252397	-	252398	-
D3	-	-	256001	-	256002	-	256003	-	
D4	-	-	256004	-	256005	-	256006	-	
<b>Zirkon BioStar HT Smile</b>	weiß	-	252712	252713	252714	252715	252716	-	252718
<b>Zirkon BioStar HT Smile Colour</b>	A2	-	-	252733	-	252735	-	-	-
	A3	-	-	252743	-	252745	-	-	-
	A3.5	-	-	252753	-	252755	-	-	-
	A4	-	-	252754	-	252756	-	-	-
<b>Zirkon BioStar HT Smile Multilayer</b>	A1	-	-	252719	-	252720	-	252721	-
	A2	-	-	252700	-	252701	-	252702	-
	A3	-	-	252703	-	252704	-	252705	-
	A3.5	-	-	252706	-	252707	-	252708	-
	A4	-	-	252709	-	252710	-	252711	-
	B1	-	-	256201	-	256202	-	256203	-
	B2	-	-	256204	-	256205	-	256206	-
	B3	-	-	256207	-	256208	-	256209	-
	B4	-	-	256210	-	256211	-	256212	-
	C1	-	-	256213	-	256214	-	256215	-
	C2	-	-	256216	-	256217	-	256218	-
	C3	-	-	256219	-	256220	-	256221	-
	C4	-	-	256222	-	256223	-	256224	-
	D2	-	-	256225	-	256226	-	256227	-
D3	-	-	256228	-	256229	-	256230	-	
D4	-	-	256231	-	256232	-	256233	-	
<b>DD cubeY® HL Zirkonoxid</b>	A1	-	-	-	256309	-	256310	-	256311
	A2	-	-	-	256312	-	256313	-	256314
	A3	-	-	-	256315	-	256316	-	256317
	A3.5	-	-	-	256318	-	256319	-	256320
	A4	-	-	-	256321	-	256322	-	256323
	B1	-	-	-	256324	-	256325	-	256326
	B2	-	-	-	256327	-	256328	-	256329
	B3	-	-	-	256330	-	256331	-	256332
	B4	-	-	-	256333	-	256334	-	256335
	C1	-	-	-	256336	-	256337	-	256338
	C2	-	-	-	256339	-	256340	-	256341
	C3	-	-	-	256342	-	256343	-	256344
	C4	-	-	-	256345	-	256346	-	256347
	D2	-	-	-	256348	-	256349	-	256350
D3	-	-	-	256351	-	256352	-	256353	
D4	-	-	-	256354	-	256355	-	256356	

## DD Basic Shade

With the DD Basic Shade staining liquids, we offer you the ideal basis for individualizing your monolithic as well as veneering work. If you want to offer a true, all-ceramic alternative to NEM, efficient fabrication in the laboratory is crucial. With the DD Basic Shade shades, we offer you a shading solution that you can use for all zirconia variants. The „one for all“ shade system that adapts to your daily laboratory routine and not the other way around.

## DD Pro Shade Z

The “Z variants” are optimized for the individual painting technique (stain & glaze), minimal coating (cut back) or as a framework shade for full veneering or the combination of the techniques in one job.

## DD Pro Shade C

The “C variants” are optimized for the high level of translucency of the Zirkon BioStar HT Smile. Monolithic full ceramic is possible with just glazing. A high aesthetic level and efficient work are combined into one.

## DD Art Elements

Universally applicable with all DD dentine liquids and with all Zirkon BioStar types.

## DDBasicShade



## DDProShadeZ



## DDProShadeC



## DDArtElements



	DD Basic Shade		DD Pro Shade Z		DD Pro Shade C	
Color acc. VITA®	REF 30 ml	REF 100 ml	REF 30 ml	REF 100 ml	REF 30 ml	REF 100 ml
0M1	255300	255301	255400	255401	255350	255351
0M2	255302	255303	255402	255403	255352	255353
0M3	255304	255305	255404	255405	255354	255355
A1	255306	255307	255406	255407	255356	255357
A2	255308	255309	255408	255409	255358	255359
A3	255310	255311	255410	255411	255360	255361
A3,5	255312	255313	255412	255413	255362	255363
A4	255314	255315	255414	255415	255364	255365
B1	255316	255317	255416	255417	255366	255367
B2	255318	255319	255418	255419	255368	255369
B3	255320	255321	255420	255421	255370	255371
B4	255322	255323	255422	255423	255372	255373
C1	255324	255325	255424	255425	255374	255375
C2	255326	255327	255426	255427	255376	255377
C3	255328	255329	255428	255429	255378	255379
C4	255330	255331	255430	255431	255380	255381
D2	255332	255333	255432	255433	255382	255383
D3	255334	255335	255434	255435	255384	255385
D4	255336	255337	255436	255437	255386	255387

DD Art Elements	REF
DD Art Elements Coloring liquid SA1	15 ml bottle 255450
DD Art Elements Coloring liquid SA2	15 ml bottle 255451
DD Art Elements Coloring liquid SC1	15 ml bottle 255452
DD Art Elements Coloring liquid SC2	15 ml bottle 255453
DD Art Elements Coloring liquid SO	15 ml bottle 255454
DD Art Elements Coloring liquid SO Bright	15 ml bottle 255455
DD Art Elements Coloring liquid light pink	30 ml bottle 255470
DD Art Elements Coloring liquid purple	30 ml bottle 255471
DD Art Elements Coloring liquid yellow	30 ml bottle 255472
DD Art Elements Coloring liquid orange	30 ml bottle 255473
DD Art Elements Coloring liquid light brown	30 ml bottle 255474
DD Art Elements Coloring liquid dark brown	30 ml bottle 255475
DD Art Elements Coloring liquid blue	30 ml bottle 255476
DD Art Elements Coloring liquid light grey	30 ml bottle 255477
DD Art Elements Coloring liquid dark grey	30 ml bottle 255478
DD Art Elements Coloring liquid graphit	30 ml bottle 255479
DD Art Elements Vario-Liquid	30 ml Bottle 255490
DD Art Elements set LAE001	10x Effect colors 30 ml 255499

## MarmoScan-Wax

Scannable modelling wax, Colours: ivory

### Applications:

- Used in blocking out cavities and closing saw cuts prior to scanning
- For all CAD-CAM systems (white light and laser scan)
- Compatible with CAM-Stone N, as no additional spray/powder is needed when using MarmoScan Wax
- For optimum scan and fit



MarmoScan-Wax

60 g can

REF 250010

## MarmoScan varnish

Scannable non-reflecting varnish for all dental gypsum

Colour: ivory

### Applications:

- Anti-reflex liquid for all CAD-CAM systems
- Smooths surfaces to be scanned
- For extra-oral laboratory use only

### Characteristics:

- Laser-opaque, washes off
- use MarmoScan thinner for thinning
- suitable for all dental gypsum



MarmoScan varnish

20 ml bottle with brush

REF 250001

MarmoScan thinner

20 ml bottle

REF 250002

## MarmoScan-Spray Plus

Scan-Spray, white

- extra-fine atomiser for ultra fine spray film, ensures finest edge presentation
- homogeneous spray condition with very smooth surfaces
- easy to clean with water steam
- suitable for all CAD-CAM systems
- for the extraoral application (gypsum model)



MarmoScan-Spray Plus

200 ml spray bottle

REF 250023



### MarmoScan-Spray Basic

Scan-Spray, white

- suitable for all CAD-CAM systems
- homogeneous spray condition with very smooth surfaces
- very good price-performance ratio
- for the extraoral application (gypsum model)
- easy to clean with water steam

MarmoScan-Spray Basic

400 ml spray bottle

REF 250022



### Scantist 3D Vanishing

Dental Scan Spray

- evaporating, extraoral 3D scan spray
- no contamination of object and environment
- no subsequent cleaning necessary
- free of titanium oxide (TiO<sub>2</sub>) and other pigments
- high time and cost saving

Scantist 3D Vanishing

200 ml spray bottle

REF 250024



### Scantist 3D Permanent

Extraoral scan spray for use in the dental industry

- To optimize the scanning quality for CAD / CAM applications, camera / video recordings, structured light scans, blue light scans, etc.
- Contains pigments – but free of titanium dioxide (TiO<sub>2</sub>)
- Ultra-thin layer thickness
- Very fine, homogeneous coating
- Efficient and economical thanks to precise spray application using a special valve with a fine nozzle
- Adheres to all materials – even on very smooth surfaces
- No corrosive effect

Scantist 3D Vanishing

200 ml spray bottle

REF 250024

## HTS-2/METAL GLOW-120+

New innovative technologies require accompanying new approaches in order to be successful.

Our wealth of experience and deep knowledge of heat treatment and sintering technology have made it possible to create a suitable solution for the challenges in the field of metal 3D printing.

With the HTS-2/METAL GLOW-120+ you will find the right tempering furnace, which can be used both with and without a protective gas atmosphere, depending on the requirements. The control used here with 30 program slots, 9 holding levels and 40° increase/min. With the data interface that is also available, it fulfills all of today's known requirements for the safe handling of your printed products.

MIHM-VOGT proves once again that experience creates innovative products that give your laboratory access to long-lasting and future-oriented technology.

- ✓ 30 SINGLE CROWNS or 1 SINTERING DISC
- ✓ Molybdenum-disilicide heating elements PRO
- ✓ Maximum temperature 1400°C
- ✓ Program contro
- ✓ Shielding-gas supply manually adjustable
- ✓ Thermocouple PtRh-Pt, Typ S
- ✓ Timer function
- ✓ RS-232 interface



HTS-2/Metal Glow-120+

REF 246283

## MV-R

The optimal combination of proven technology and future-oriented innovations

Due to significant further development of our heating technology, we have achieved a heating rate of up to 200°C/min and can thus meet our customers' demands for shorter sintering times. On 200 program positions any sintering program can be displayed, each with 10 possible programming levels.

The clearly designed touch display guides you through the individual menu levels in simple steps and enables fast programming of the individual material parameters.

The USB data interface allows quick installation of device updates and readout of error analyses.

These and other future-oriented innovations - combined with the proven quality of MIHM-VOGT - make the mv-r a strong partner for every requirement in your dental practice or laboratory.



MV-R

REF 246199



## TABEO

The new generation of the model series TABEO / ZIRKON has been designed in close cooperation with dental laboratories and dealers of our worldwide distribution network. The result is a device concept which fully complies with most varied requirements not only in terms of economic efficiency and reliability, but especially with regard to characteristics of modern materials.

The SiC versions are equipped with 4 high-quality heating elements made of silicon carbide, allowing a sintering temperature of up to 1550°C and preventing discoloration of the restorations caused by molybdenum. Pre-set service programs increase the life span of the heating elements and the heating chamber in addition.

The MoSi<sub>2</sub> versions are equipped with 4 high-quality molybdenum-disilicide heating elements of the latest generation allowing a sintering temperature of up to 1650°C. The regular execution of pre-set service programs can prevent possible discoloration of restorations and increase the life span of the heating elements and the heating chamber.

TABEO-1/M/ZIRKON-100

REF 246240

TABEO-2/M/ZIRKON-120

REF 246242

## German high-tech when it comes to preheating and sintering furnaces!



## HTS

The redesigned HTS-2 model series combines the well-known features of the models HT-S and HT-S SPEED.

The HTS-2 offers you not only the fusion of the properties of old models, but also a larger sintering capacity of up to 80 individual crowns. The heating system with four high-performance molybdenum disilicide heating elements (MoSi<sub>2</sub>) means that you can now choose whether to use the conventional long-term sintering or the SPEED-sintering with a heat-up rate up to 99°C/minute.

The simple, practical handling of the HT-series program control was also incorporated here with all its familiar functions; program display on a four-line LCD-display, timer function for sintering overnight or also using drying programs for wet-milled restorations. There are three service programs for servicing the heating chamber and the heating system.

HTS-2/M/ZIRKON-120

REF 246194

## HT

HT-2 - even more efficient due to a larger capacity

Due to the size of the heating chamber, it is now possible to process three sintering trays  $\varnothing=120\text{mm}$  during the conventional long-term sintering. However, the heating system with six high-quality molybdenum disilicide heating elements ( $\text{MoSi}_2$ ) enable you to carry out processes within 76 minutes in a SPEED-sintering process. These represent optimal prerequisites for your dental laboratory or milling centre.

As with all our model variants, the HT-2 is operated with a simple, self-explanatory program control. 4-line LCD-display, timer function for overnight sintering, drying programs for wet-milled restorations. There are three service programs for servicing the heating chamber and the heating system.



HT-2/M/ZIRKON-120

REF 246094



## METAL

Safe and fit for the future

There are three models available to select from for sintering non-precious metal (NEM). All of these models work under inert gas atmosphere to protect the non-precious metal from scaling.

Choose from two long-lasting non-precious metal sintering systems. For the metal system 100, the shielding-gas supply is system-controlled. In addition to some pre-set material parameters, free programs are available. This guarantees safety. For the metal system 120, on the other hand, the shielding-gas supply can be adjusted manually. In addition to a high level of safety the customer can be sure to have the freedom to adapt the system to new kinds of metal material in the future.



TABEO-2/M/METAL-120

REF 246244

HTS-2/M/METAL-120

REF 246198

# Overview sintering furnaces



TABEO-1  
M/ZIRKON-100



TABEO-2  
M/ZIRKON-120



HTS-2  
M/ZIRKON-120



HT-2  
M/ZIRKON-120

	REF 246240	REF 246242	REF 246194		REF 246094	
	Zirconium	Zirconium	Zirconium		Zirconium	
Heating-chamber height (m)	42	92	72		102	
Sintering tray	1 x Ø 100 mm / 30 mm sinter bowl	3 x Ø 120 mm / 30 mm sinter bowl	2 x Ø 120 mm / 30 mm sinter bowl		3 x Ø 120 mm / 30 mm sinter bowl	
max. temperature	1650 °C	1650 °C	1650 °C		1650 °C	
Heating elements	4 x SiC	4 x MoSi	4 x SiC		6 x MoSi	
max. programmable heating rate (K/min)	25	25	Classic 30	Speed 99	Classic 30	Speed 99
shortest heating periode to 1.500°C at 230V	61	72	55	25	49	27
shortest cooling periode to 300°C	148	145	47	18	143	19
Program control						
7-segment LED	✓	✓	✗		✗	
4-lines LCD	✗	✗	✓		✓	
Number of process steps	4	4	4		4	
Fixed programs	✗	✗	✗		✗	
Program numbers free	9	9	30		30	
Thermocouple PtRh-Pt 140 mm, Typ S	✓	✓	✓		✓	
Service programs						
A-Temperature control	✓	✓	✓		✓	
C-Purge heating chamber	✓	✓	✓		✓	
E-Regenerate heating elements	✓	✓	✓		✓	
Buff. of emergency-cooling battery			✗		✗	
Port RS 232	✓	✓	✓		✓	
Door lift function	✗	✗	✓		✓	
Shielding-gas supply	✗	✗	✗		✗	
Over-night programming	✓	✓	✓		✓	
Power max.	1500	1800	3200		3800	
Voltage range	200-240 V   50/60 Hz   Socket separately fused (FI)					
Dimensions	400 x 400 x 600 mm	480 x 460 x 680 mm	390 x 500 x 790 mm		500 x 560 x 820 mm	
Weight in kg	55	80	60		74	

[1\*] only in combination with test kit



TABEO-2  
M/METAL-120



HT-2  
M/METAL-120



MV-R



HTS-2  
METAL Glow-120+

REF 246244	REF 246198	REF 246199	REF 246283	
Metal	Metal	Zirconium	Metal	
92	67	75	100	Heating-chamber height m)
1 x Ø 120 mm sinter system	1 x Ø 120 mm sinter system	2 x Ø 100 / 30 mm sinter bowl		Sintering tray
1400 °C	1400 °C	1650 °C	1400 °C	max. temperature
4 x MoSi	4 x MoSi	4 x MoSi	4 x MoSi	Heating elements
40	40		40	max. programmable heating rate (K/min)
		8 „SPEED Motion“		shortest heating periode to 1.500°C at 230V
				shortest cooling periode to 300°C
				Program control
✓	✗	7" Touch Display		7-segment LED
✗	✓			4-lines LCD
4	4	10	9	Number of process steps
4	4			Fixed programs
5	26	200	30	Program numbers free
✓	✓	✓	✓	Thermocouple PtRh-Pt 140 mm, Typ S
				Service programs
		✓		A-Temperature control
		✓		C-Purge heating chamber
		✓		E-Regenerate heating elements
✗	✗			Buff. of emergency-cooling battery
✓	✓			Port RS 232
✓	✓			Door lift function
✗	✗			Shielding-gas supply
✓	✓			Over-night programming
1600	2000	3200	3000	Power max.
200-240 V   50/60 Hz   Socket separately fused (FI)				Voltage range
530 x 460 x 680 mm	390 x 500 x 790 mm	390 x 540 x 780 mm	390 x 540 x 800 mm	Dimensions
80	56	65	63	Weight in kg



## 2 CREATE

Metal 3D Printer for dental applications and prototypes is an accessible way to rapid manufacturing metal parts and prototypes with complex geometries from a variety of alloys..

- ✔ **Simply**
  - intuitive and convincing software solutions
  - simple and easy to use for everyone
- ✔ **Robust**
  - robust and reliable system
- ✔ **Open**
  - the user decides how and with which powder to print.
- ✔ **Affordable**
  - cheap, reliable, flexible.
  - 3D printing accessible to everyone
- ✔ **Fast Material Change**
  - change your metal powder within 20 minutes
- ✔ **Plug & Play**
  - ready to start printing titanium & other alloys
- ✔ **Instant printing**
  - ready to print in below 5 minutes (from 21% oxygen to below 1%)

### Technicle Data

#### 2CREATE

Build volume	Ø 100 x 100 mm
Reservoir volume	Ø 110 x 200 mm
Coater	Rotation precision coater
Layer thickness	20 - 100 µm

#### 2CREATE PLUS

Build volume	150 x 150 mm (Height 100mm)
Reservoir volume	150 x 150 mm (Height 200mm)
Coater	Linear precision coater
Layer thickness	30 - 80 µm

#### 2CREATE & 2CREATE PLUS

Inert gas	Nitrogen/Argon
Dimensions	720 x 860 x 1790 mm
Weight	450 kg

#### Optic

Laser source / power	Yb fiberlaser / 250W
Wavelength	1070 nm
Lens	Precision F-Theta lens
Scan speed	up to 10 m/s
Spot size	min. 40 µm

#### Elektronic

Power	230V, 10A 50/60Hz, 2.3kW
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#### 2 CREATE 3D Metal Printer

REF 268010

## 2CREATE PLUS

Get started with efficient production with 2create Plus.

Its larger platform offers space for more different parts and drastically increases production efficiency. It is designed for robust dental production, but also opens the way to various industrial applications.

- ✔ The spacious print area of 150 mm x 150 mm enables the simultaneous printing of several different parts and thus increases production rates.
- ✔ The powerful 400 W laser ensures the precision that is crucial for high-quality dental and industrial parts.
- ✔ Retains the compact design of 2Create, making it a powerful yet space-saving production solution.
- ✔ The ease of use and robustness of the 2Create, now paired with higher productivity, offer an upscale manufacturing solution.

#### 2CREATE PLUS 3D Metall Drucker

REF 268011

## 2 BUILD (Software for 2 CREATE)

2BUILD Software is the newest and most innovated tool for 3D Printing data preparation, and the solution to all your 3D printing needs. The strategy editor allows you to choose the right strategy for your powder from a large library of process parameters.

### ✔ Nesting

- High-speed nesting saves valuable post-processing time

### ✔ Labeling

- Labeling for easy allocation of the components

### ✔ Support Generation

- Automatic generation of supports

### ✔ Integrated analysis tool

- Develop new parameters quickly
- Automated, statistical design of experiments
- Integrated density evaluation based on image analysis
- Automated calculation of the optimal printing parameters

### ✔ Production Manager

- Increase your productivity and optimize your work processes

### ✔ 2Connect

- Control and monitor your AM-ECO system via one platform

### ✔ Support Editor

In 3D printing, the supports fulfill several important functions.

They attach the component to the surface of the build platform and thus prevent thermal deformation. In addition, the supports ensure heat transport during printing. The heat generated by the melting of the powder must be dissipated via the supports, since the non-melted powder is a very good thermal insulator. In the support editor, all properties of the supports can be freely selected. In addition to the thickness and density of the supports, the bond to the component can also be adjusted. An intelligent integrated algorithm adjusts the number of supports so that only as many supports are generated as are necessary for reliable printing.

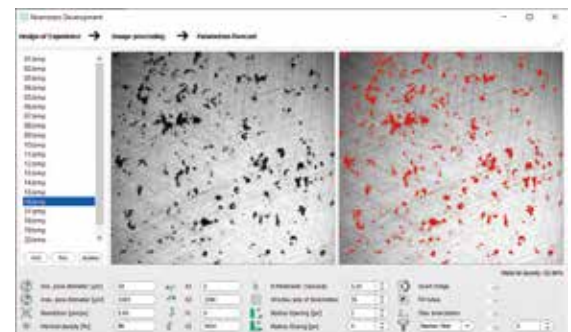
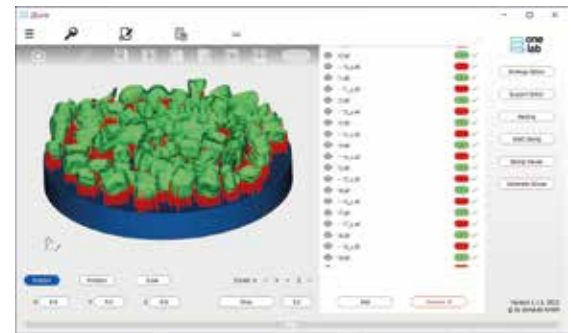
This saves time and money during postprocessing. .

### ✔ Strategy Editor

A variety of 3D printing strategies can be chosen in the strategy editor. The software allows full control over the exposure process. Various hatching, contour and finishing strategies settings are available. Strategies can be created and managed by the user as desired. The intuitive concept of individual color coding allows the new strategy to be applied to the model with a few clicks. Clear, simple and intuitive.

Besides line hatching, the editor also offers the possibility for island or stripe exposure. The contour drive can also be defined as desired.

Newly created strategies are synchronized directly in the cloud and can be accessed from different devices.





## DLyte mini Basic Plus

The DLyte Mini Basic Plus is the newest DLyte system. Compact and lightweight, it offers mirror-like results at the touch of a button. Its simple design enables effortless operation and minimises the space required in the laboratory. With its efficient 20-minute cycle, it reduces labour and time. Versatile in use, it guarantees precise polishing for all common CoCr applications.

### The ultimate solution for dentistry

The DLyte Mini device comprises a polishing unit designed to accommodate two RPDs, featuring a motorized head that generates both planetary and orbital motion within the electrolyte-filled drum. This unique polishing action ensures efficient and precise polishing, making DLyte Mini an ideal solution for dental applications.

### Two-stage cleaning system

The machine is designed with a highly efficient two-stage cleaning system that ensures thorough rinsing of the piece and complete removal of any remaining electrolyte. With this advanced cleaning system, you can trust that your finished product will be perfectly clean and ready for use.

### Polishing made easy

The holder and machine head are expertly assembled into the deposit for efficient, automatic cleaning following the polishing process, providing the most comprehensive solution within a compact system. With this features, your polishing machine is not only efficient and effective, but also easy to maintain and keep clean.

DLyte mini

REF 269103

## DLyte Desktop Pro

Like the mini, the DLyte Desktop also offers the same compactness, but also covers the polishing of titanium and stainless steel in addition to CoCr alloys. Thanks to its larger container for the polishing medium, the Desktop PRO also requires minimal maintenance. The user interface is intuitively designed and offers the user even more options with the strategy editor to configure the results as desired.

### Ultra-compact equipment

Our advanced technology is now available in a compact package. The DLyte Desktop is designed to fit on a small table and measures just 450 mm x 521 mm, making it perfect for limited spaces. Say goodbye to compromises and hello to a powerful solution that fits into tight spaces.

### Short loading and unloading times

The quick connect and release mechanism is designed to be convenient and easy to use, reducing the time it takes to change holders. This new locking feature ensures a secure and reliable hold of the holder and ensures smooth operation.

### Easy handling and storage of media

Experience easy, fast and safe loading and unloading of electrolyte media. With our 3-litre electrolyte container, the process is completed in less than a minute, making it efficient and effortless. To ensure optimum performance, remove and store the electrolyte when the device is not in use.



DLyte Desktop Pro

REF 269101



### DLyte 1D

REF 269102

### DLyte 10D

REF 269104

### DLyte 100D

REF 269105

## DLyte 1D / 10D / 100D

The Performance Series offers a scalable solution for higher production outputs. These systems are particularly suitable for combination with SLM (laser melting), as many applications can be produced simultaneously. Processing of all common materials is also possible here and the system offers a user-friendly user interface with an innovative strategy editor. An innovative holder for applications rounds off the Performance Series to ensure highly efficient production for modern laboratories.

#### Innovative holder system

The Dental Compact Series has specially developed holding systems for securely clamping the workpieces. These holders are then pushed into the bucket with the dry electrolyte medium. This unique system ensures that the workpieces come into even contact with the electrolyte, enabling precise and efficient polishing.

#### Uniform electric fields

This DLyte machine is equipped with a high performance coated titanium cathode located inside the drum perimeter, ensuring that uniform electric fields are generated to achieve homogene-

ous results across the entire surface. This advanced technology ensures that even the most intricate parts are treated to the same level, resulting in a uniform, high quality finish.

#### Automatic conductivity adjustment

DLyte's automatic media conductivity adjustment system consists of a conductivity tester and a high-precision pump that work together to automatically adjust the conductivity of the media. This advanced system ensures that the electrolyte moisture is constantly maintained at an optimum level, resulting in a highly efficient and effective surface finishing process.



	<b>Mini Basic Plus</b> REF 269111	<b>Desktop PRO</b> REF 269101	<b>1D</b> REF 269102	<b>10D</b> REF 269104	<b>100D</b> REF 269105
<b>Capacity</b>					
Model castings	2	2	4	6	12
Crowns	4	4	8	12	18
Bridges	2	2	4	8	18
<b>Material</b>					
<b>Basis</b>					
CoCr	✓	✓	✓	✓	✓
Titan	✗	✓	✗	✗	✗
V4A	✗	✗	✓	✓	✓
optional	✗	✗	Titan	Titan	Titan
<b>Properties</b>					
Device dimensions (W x H x D)	420 x 766 x 730 mm	450 x 519 x 470 mm	510 x 1.150 x 690 mm	820 x 1.280 x 680 mm	950 x 1.410 x 730 mm
Support dimensions (W x H x D)	-	-	505 x 743 x 702 mm	820 x 680 x 680 mm	950 x 700 x 740 mm
Weight	30 kg	43 kg	96 kg	173,5 kg	217,5 kg
Supporting weight	-	-	47 kg	87 kg	100 kg
<b>Power / compressed air</b>					
Power	0,8 kW	1,7 kW	2 kW	3 kW (single-phase with industrial plug)	5 kW (single-phase with industrial plug)
Voltage	230 V	230 V	220 V-240 V	220 V-240 V	220 V-240 V
Frequency	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
Compressed air	-	-	4-5 bar	4-5 bar	4-5 bar

## DLyte Electrolyte

### Perfect surface finish by selecting the best electrolyte

The material to be treated is a decisive factor in determining the appropriate electrolyte formulation and process parameters. There are many factors that need to be considered when treating a material, such as its composition, density and hardness. The DLyte team of experts has extensive knowledge of different metals and alloys and can determine the best electrolyte formulation and process parameters for each material.

#### ✔ Size and geometry

By using particles with different sizes and geometries, parts with different geometries can be treated effectively as hard-to-reach areas are reached, maximising the surface area that comes into contact with the electrolyte and resulting in a more uniform and thorough treatment of the material; this technique offers an efficient and versatile solution for different material processing requirements.

#### ✔ Elastic deformation

By tuning the elasticity of the electrolyte particles, excellent surfaces can be achieved with exceptional precision and speed, characterised by differences in brightness, homogeneity and removal rate, among other things. This technique offers excellent versatility in a range of material processing applications, whether in single-stage or multi-stage consumable processes.

#### ✔ Chemical formulation

Tailored electrolyte formulations are essential to achieve high quality finishes while minimising material removal and maximising productivity. By customising the formulation to specific requirements and industry regulations, this technique provides an efficient and versatile solution for a wide range of material finishing requirements, including aqueous or oil-based solutions, additives and acids.



CoCr 04 - DLYTE 01-MSA G L130 Electrolit	SMini	REF 269206
CoCr 18 - DLYTE 01-S L233 Electrolit	SMini	REF 269205
CoCr 01 - DLYTE 01-S Electrolit	Desktop	REF 269200
CoCr 04 - DLYTE 01-MSA G L130 Electrolit	Desktop	REF 269201
CoCr 18 - DLYTE 01-S L233 Electrolit	Desktop	REF 269207
CoCr 01 - DLYTE 01-S Electrolit	S1	REF 269202
CoCr 04 - DLYTE 01-MSA G L130 Electrolit	S1	REF 269203
CoCr 18 - DLYTE 01-S L233 Electrolit	S1	REF 269208
CoCr 01 - DLYTE 01-S Electrolit	S10	REF 269204
CoCr 04 - DLYTE 01-MSA G L130 Electrolit	S10	REF 269209
CoCr 18 - DLYTE 01-S L233 Electrolit	S10	REF 269210
CoCr 01 - DLYTE 01-S Electrolit	S100	REF 269211
CoCr 04 - DLYTE 01-MSA G L130 Electrolit	S100	REF 269212
Ti 01 - DLYTE MIX MSA PLUS-S Electrolit	Desktop	REF 269220
Ti 06 - DLYTE 01-MSA G L130 Electrolit	Desktop	REF 269222
Ti 01 - DLYTE MIX MSA PLUS-S Electrolit	S1	REF 269221



## Phrozen Sonic LS+

Compact LCD desktop printer with 22 µm resolution and an innovative 385 nm LED light source, delivering high light intensity for short build times. The high-quality full-metal housing and improved vat and platform handling make Phrozen's new generation of user-friendly 3D printers for all dental applications.

### Print volume:

Standard: 133 x 209 x 185 mm<sup>3</sup>

Mini: 74 x 168 x 185 mm<sup>3</sup>

### Highlights

- ✓ Building platform with optimal adhesive properties
- ✓ Comprehensive service and support from our experts
- ✓ Dreve ElementS Slicer and optimized printing profiles for top results
- ✓ PC-based control and monitoring

Phrozen Sonic LS+

REF 267724



## FotoWash

Cleaning unit for 3D printed components after the printing process. Unit with magnetic stirrer technology and automatic transfer between the two basins. Various cleaning programs can be selected and created via touchscreen. The platform of the Sonic XL 4K can be hooked directly into the unit and cleaned together with the adhering components.

### Highlights

- ✓ Practically noiseless
- ✓ Simultaneous cleaning of the building platform
- ✓ Automatic transfer between the cleaning tanks
- ✓ Special cleaning profiles for FotoDent® materials
- ✓ Expandable with your own profiles

FotoWash

REF 267730

## SilaPrint Wash II

### Simple and clean

The used liquid can be emptied very easily by removing the inner tank. The airtight lid prevents unpleasant odors from escaping and thus improves the working environment.

### Height-adjustable drainer

Thanks to the integrated height-adjustable drip device, the operator can remove the components to be cleaned easily and cleanly.

### A program for every object

There are 3 washing programs available, which can be selected from the menu: Standard and intensive cleaning or the wash cycle for sensitive parts. You can clean very complex objects precisely. Gentle cleaning is suitable for sensitive parts in order not to damage the 3D prints.

- ✔ Dimensions: 320 x 240 x 330 mm (W x H x D)
- ✔ Inner space: 145 x 145 x 105 mm (W x H x D)



SilaPrint Wash II

REF 267704

## Otoflash G171

### Flash-curing device for lightcuring resins

The device can be used for the photo-polymerisation of all light-curable materials (where the curing takes place) at a wavelength range of 280-580 nm. Ideal for end curing of 3D printed dental resins. With its technical configuration, the Otoflash G171 enables short curing times. Compared to other methods this achieves a substantially better curing of the 3D printed materials, resulting in very good physical characteristics and reduced residual monomer content (inhibition layer).

In combination with our Otoflash G171 and our printing material Ortho Print UV (medical class IIa) you can produce certified occlusal splints and drilling templates.

- ✔ Dimensions of polymerisation chambers: 120 x 120 x 50 mm
- ✔ Trays for polymerization material with UVB blocker
- ✔ Power input: 250 Watt
- ✔ Number of light sources: 2 flashbulbs à 100 W
- ✔ Flash frequency: 10 flashes per second
- ✔ deliverable with a protective gas appliance for nitrogen (N<sub>2</sub>)
- ✔ Digital timer: adjustable from 1 to 9.999 flashes
- ✔ Dimensions: 310 x 310 x 140 mm, weight: 6 kg



Otoflash G171

REF 267900



### SilaPrint model II

385 / 405 nm

Lightcuring resin for the manufacturing of dental models for orthodontics and prosthetics. Faster printing process due to higher output, still with the same precision. Also suitable for printing expert and show models.

SilaPrint model II, 1.000 g, beige

REF 267300



### SilaPrint model LCD

385 / 405 nm

SilaPrint model LCD is a light curing resin for the production of dental models using 385 nm / 405 nm LED based stereolithography. For obligatory post curing of SilaPrint model LCD built parts, the high performance light curing unit Otoash G171 is recommended, which is optimal balanced to the production process.

SilaPrint model LCD, 1.000 g, beige

REF 267307



### SilaPrint cast

385 / 405 nm

Light-curing resin for the production of burn-out molded parts for the dental casting technique. The material is highly compatible: it can be used with all commercially available embedding materials.

SilaPrint cast, 1.000 g

REF 267303



### SilaPrint gingiva

385 / 405 nm

Light-curing resin for the manufacturing of dental gingiva masks. Permanently soft and exible. Perfectly combinable with working models made of FotoDent® model resins.

SilaPrint gingiva, 1.000 g

REF 267302

**FotoDent® tray 2**

385 / 405 nm

Optimized, biocompatible resin for the fabrication of dental, individual impression trays. High reactivity with low viscosity. Simplified cleaning and improved mechanical properties. Two times faster printing times, layer thicknesses of 300 µm possible. The finished impression trays have a homogeneous surface, which significantly reduces manual reworking.

FotoDent® tray 2, blue transparent , 1.000 g	<b>REF 267337</b>
FotoDent® tray 2, green transparent , 1.000 g	<b>REF 267338</b>
FotoDent® tray 2, reddish transparent , 1.000 g	<b>REF 267339</b>

**FotoDent® guide**

Light-curing resin for the manufacturing of dental drill guides. Drill guides made from FotoDent® guide are dimensionally stable and biocompatible.

FotoDent® guide, blue transparent, 405 nm, 1.000 g	<b>REF 267334</b>
FotoDent® guide, clear transparent, 385 nm, 1.000 g	<b>REF 267335</b>

**FotoDent® denture**

385 / 405 nm

Light-curing resin for the production of denture bases. The material provides for accurate results with an outstanding dimensional stability. FotoDent® denture is MMA-free and stable of colour.

FotoDent® denture, 1.000 g, pink-transparent	<b>REF 267330</b>
FotoDent® denture, 1.000 g, pink-opaque	<b>REF 267331</b>





## SprintRay Pro 2

### 35 $\mu$ m Precision

Patent-pending 35  $\mu$ m Optical Panel technology combined with 385 nm light engine puts Pro 2 at the forefront of 3D printing accuracy.

### 4x Throughput

Pro 2 can 3D print 6+ full arch dental models in a single job or use the Arch Kit to print up to 2x faster. Now you're in control of your production workflow.

### 15+ Workflows

Pro 2 is the ultimate practice supercharger, supporting workflows across myriad specialties – from clear aligner production to hyper-precise hybrid dentures.

Pro 2 is a next-generation dental 3D printer that delivers unprecedented accuracy and throughput.

With patent-pending Optical Panel technology and 385 nm UV-A light, it achieves unparalleled printing accuracy.

At the same time, the Pro 2 impresses with its high throughput: more than six complete dental arches can be produced in a single print job, or up to twice as fast with the Arch Kit.

Supporting over 15 dental workflows - from transparent aligners to high-precision hybrid prostheses - the Pro 2 offers maximum control and flexibility in the modern production workflow.

An ultra-wide 12" touchscreen with a new UI supports the organization of the 3D printing workflow. A barcode scanner allows you to track medical products.

The complete SprintRay system includes (AI) design, precise printing, and easy post-processing, so your workflow from scan to print takes less than an hour—without lengthy training.



## ProWash S

The SprintRay ProWash S is a latest-generation automatic washing and drying system for dental 3D printing. Two-stage washing and drying cycles clean printed parts particularly quickly - models in just nine minutes.

Patented mechanical jetting technology with Power Dry function, cloud connectivity for a seamless workflow, and intelligent sensors ensure clean results and reliable performance.

### Technical Specifications:

Dimensions	30 x 30 x 46 cm
Platform Wash Envelope	17 x 12,7 x 7,6 cm
Basket Wash Envelope	17 x 12,7 x 12,7 cm
Wash Liquid Compatibility	<b>Isopropyl alcohol 91% (Recommended)</b> Isopropyl alcohol 99% Ethanol
Minimum Wash Solution Required	1 Liter per Reservoir
Maximum Wash Solution	2 Liter per Reservoir

SprintRay ProWash S

REF 311802



## NanoCure

### Polymerization device for a new level of mechanical and aesthetic excellence

The SprintRay NanoCure is a compact post-curing system for next-generation printed indications. Prints are fully cured in just a few minutes - without the need for nitrogen.

The combination of 365 and 385 nm wavelengths and a smart heating module maximizes mechanical and aesthetic properties and opens up new materials for digital dentistry. The finely tuned technology ensures maximum performance with minimum space requirements.

### Time required for post-curing

Indication	Material	Time
Models	Die and Model 2	2 mins
Occlusal Guards	NightGuard Flex	4 mins
Surgical Guides	Surgical Guide 3	3 mins
Crown & Bridge	Crown	3 mins
Veneers	Crown	3 mins
IDB Trays	IDB 2	2 mins

SprintRay NanoCure

REF 311803





## Die and Model 2 Grey / Tan

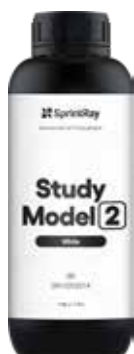
SprintRay Die & Model 2 represents a big step forward in dental modelling materials. The new gray color offers extremely high color contrast to help illustrate details. The new tan color mimics classic dental stone and features almost no pigment settling, which means you can spend more time printing and less time mixing. Improved adhesion to the build plate is matched by an increase in flexural modulus and strength, providing higher success rates and a reduced chance of breakage.

SprintRay Die and Model 2 Grey, 1.000 g

REF 311800

SprintRay Die and Model 2 Tan, 1.000 g

REF 311801



## Study Model White 2

SprintRay Study Model White 2 is a special material formulation that offers excellent color, clarity, and production speed, making it perfect for patient presentation. With high curing efficiency, you can offer mockups and waxups on the same day. In addition, thanks to an improved color formulation that does not discolor during post-processing, you get pure white prints every time.

SprintRay Study Model White 2, 1.000 g

REF 311802



## NightGuard Flex

NightGuard Flex™ was formulated from the ground-up to create the fastest, most comfortable 3D printed occlusal guard in dentistry. This biocompatible\* material features high impact strength and flexure at body temperature; your patients will love the comfort and longevity. Achieve superior fit and finish with a guard that is easy to polish and clean. Plus, NightGuard Flex™ is flavorless, ensuring smooth delivery.

SprintRay NightGuard Flex, 1.000 g

REF 311803



## Surgical Guide 3

Surgical Guide 3 is the fastest, most durable implant guide material that SprintRay has ever made. Featuring improvements to flexural strength and modulus vs SprintRay EU Surgical Guide, you can confidently place implants with this biocompatible resin. Plus, improved printing speeds further reduce time to surgery, improving flexibility and offering a superior patient experience.

SprintRay Surgical Guide 3, 1.000 g

REF 311805

## Retainer

SprintRay Retainer is a photopolymer methacrylate/acrylate resin that is used in combination with a 3D printer and a scanned 3D image in a dental practice or laboratory to produce retainers through layer-by-layer 3D printing.

SprintRay Retainer Resin is available in one shade: Clear.



SprintRay Retainer, 500 g

REF 311806

## EU High Impact Denture Base

Digital dentures can reduce the number of appointments required for denture insertion. SprintRay EU High Impact Denture Base Resin is a biocompatible resin for the generative manufacture of denture bases.

SprintRay EU High Impact Denture Base is available in orange pink, natural pink, light pink, and deep pink shades.

SprintRay EU High Impact Denture, 1.000 g, orange pink	REF 311807
SprintRay EU High Impact Denture, 1.000 g, light pink	REF 311808
SprintRay EU High Impact Denture, 1.000 g, deep pink	REF 311809
SprintRay EU High Impact Denture, 1.000 g, light pink B	REF 311810
SprintRay EU High Impact Denture, 1.000 g, natural pink	REF 311811



## Apex Base

SprintRay Apex Base is an alternative to traditional denture base materials. It is intended for professional dental use only.

It is available in different shades: Light Pink, Original Pink, Dark reddish Pink, and Opaque Original Pink.

SprintRay Apex Base, 1.000 g, light pink	REF 311812
SprintRay Apex Base, 1.000 g, original pink	REF 311813
SprintRay Apex Base, 1.000 g, dark reddish pink	REF 311814
SprintRay Apex Base, 1.000 g, opaque original pink	REF 311815



## Apex Teeth

SprintRay Apex Teeth is a nanoceramic, biocompatible resin for 3D printing removable prostheses. Thanks to proprietary NanoFusion™ technology, it exceeds ISO high impact resistance standards.

The optimally balanced ceramic content ensures high fracture and wear resistance and outperforms both 3D-printed and milled competitive materials in several performance characteristics. Optimized translucency ensures aesthetically pleasing 3D-printed dentures.

SprintRay Apex Teeth, 500 g, A1	REF 311816
SprintRay Apex Teeth, 500 g, A2	REF 311817
SprintRay Apex Teeth, 500 g, B1	REF 311818
SprintRay Apex Teeth, 500 g, Bleach	REF 311819





## Ceramic Crown

SprintRay Ceramic Crown is a hybrid Class II nanoceramic resin with FDA approval for permanent full crowns, partial crowns, and veneers. Ceramic Crown is a ceramic-dominant material, meaning it consists of more than 50% inorganic ceramic and is radiopaque, making it highly visible on X-rays.

Thanks to its high strength and wear resistance, SprintRay Ceramic Crown is the material of choice for permanent 3D crowns. This material is easy to work with and polish and offers excellent aesthetics that blend seamlessly with existing teeth.

SprintRay Ceramic Crown Bleach, 250 g	REF 311820
SprintRay Ceramic Crown A1, 250 g	REF 311821
SprintRay Ceramic Crown A2, 250 g	REF 311822
SprintRay Ceramic Crown A3, 250 g	REF 311823
SprintRay Ceramic Crown B1, 250 g	REF 311824
SprintRay Ceramic Crown C2, 250 g	REF 311825
SprintRay Ceramic Crown D2, 250 g	REF 311826



## OnX Tough 2

OnX Tough 2 is a high-performance 3D printing resin specially developed for fixed, implant-supported dentures. With MDR and FDA approval, it is suitable for safe use directly in practices and laboratories.

SprintRay OnX Tough 2 Hollywood White, 500 g	REF 311827
SprintRay OnX Tough 2 Bleach, 500 g	REF 311828
SprintRay OnX Tough 2 A1, 500 g	REF 311829
SprintRay OnX Tough 2 A2, 500 g	REF 311830
SprintRay OnX Tough 2 B1, 500 g	REF 311831



## Crown

SprintRay Crown is a ceramic-filled hybrid material for 3D printing single crowns, inlays, onlays, and veneers. This material is easy to finish and polish using traditional methods and offers excellent aesthetics that match existing teeth.

SprintRay Crown A1, 500 g	REF 311832
SprintRay Crown A2, 500 g	REF 311833
SprintRay Crown A3, 500 g	REF 311834
SprintRay Crown B1, 500 g	REF 311835
SprintRay Crown B3, 500 g	REF 311836
SprintRay Crown C2, 500 g	REF 311837
SprintRay Crown D3, 500 g	REF 311838

## EU Temporary Crown & Teeth

The SprintRay EU Crown and Teeth Resin series are biocompatible resins for the fabrication of temporary crowns and bridges, as well as for temporary use in the anterior region. The material properties of SprintRay EU Temporary Crown & Teeth Resin also make it ideal for long-term temporary restorations.

SprintRay EU Temporary Crown & Teeth A1, 1.000 g	REF 311839
SprintRay EU Temporary Crown & Teeth A2, 1.000 g	REF 311840
SprintRay EU Temporary Crown & Teeth A3, 1.000 g	REF 311841
SprintRay EU Temporary Crown & Teeth A3,5, 1.000 g	REF 311842
SprintRay EU Temporary Crown & Teeth B1, 1.000 g	REF 311843
SprintRay EU Temporary Crown & Teeth B2, 1.000 g	REF 311844
SprintRay EU Temporary Crown & Teeth Bleach, 1.000 g	REF 311845



## EU Castable Red

With SprintRay's EU Castable Resin, you can quickly and accurately print models for use in investment casting. This material is easy to work with and leaves no residue after the burnout process.

SprintRay EU Castable Red, 1.000 g	REF 311847
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## Dental Model

SprintRay Dental Model Resin produces robust models with excellent surface quality and ensures precise, smooth, and accurate treatments. It supports both horizontal and vertical printing, enabling high dimensional accuracy.

The high-contrast colors "Dune" and "Graphite" provide clear and distinct details and facilitate precise adjustments.

SprintRay Dental Model Dune, 3.000 g	REF 311812
SprintRay Dental Model Graphite, 3.000 g	REF 311813





## SprintRay MIDAS

Midas uses Digital Press Stereolithography, a patented printing method that replaces the resin, tank, and build platform with a resin capsule. This advancement allows Midas to print with highly filled resins that are too viscous to use on a conventional 3D printer.

The Midas resin capsule combines the build platform, tank, and material in a single disposable item. This innovation enables viscosity-independent 3D printing while offering impressive speed, precision, and an optimized workflow.

### 1. Scanning

Each Midas capsule is coded with material type, shade, manufacturing information, and expiration date. When printing begins, simply scan the capsule with the barcode scanner.

### 2. Placing

Midas has three printing stations on the heated printing glass. After scanning, the integrated computer indicates where the cartridge should be placed.

### 3. Pressing

Midas begins the pressing process once all capsules for the print job have been scanned and placed. The printing platform slowly descends while the resin is cured.

### 4. Remove print

Remove the capsule from the printing glass. Pull the tab on the build platform to release it from the capsule. Your restoration is now ready for finishing.



## Digital Press Stereolithography (DPS)

Digital Press Stereolithography (DPS) 3D printing uses hydrodynamic principles to create an environment in which the viscosity of the resin no longer limits speed or precision. This technology enables Midas to print up to three definitive crowns in just 10 minutes - regardless of filler content.

## Crown HT

SprintRay Crown HT for Midas is an FDA 510(k)-cleared, biocompatible composite material for definitive dental restorations.

With over 60% ceramic content, it mimics natural light scattering, making it ideal for full crowns, inlays, onlays, and veneers. Crown HT is designed to replicate the mechanical properties of natural teeth, ensuring durability, aesthetics, and long-term functionality.

Crown HT capsules are available exclusively for the SprintRay Midas in shades A1, A2, A3, B1, and Bleach and require the SprintRay NanoCure curing unit for optimal results.



SprintRay Crown HT A1, 3 capsules	REF 311700
SprintRay Crown HT A2, 3 capsules	REF 311701
SprintRay Crown HT A3, 3 capsules	REF 311702
SprintRay Crown HT B1, 3 capsules	REF 311703
SprintRay Crown HT Bleach, 3 capsules	REF 311704
SprintRay Crown HT Unpigmented, 3 capsules	REF 311705

## Ceramic Crown

Ceramic Crown is an FDA 510(k) Class II approved material for 3D printing and is now available in DPS capsules for the world's simplest restoration printing workflow on Midas. With a ceramic-dominant formulation and print times of less than ten minutes, Ceramic Crown is the ideal material for restorations.



SprintRay Ceramic Crown A1, 3 capsules	REF 311706
SprintRay Ceramic Crown A2, 3 capsules	REF 311707
SprintRay Ceramic Crown A3, 3 capsules	REF 311708
SprintRay Ceramic Crown B1, 3 capsules	REF 311709
SprintRay Ceramic Crown BL, 3 capsules	REF 311710

## OnX Tough 2

SprintRay OnX Tough 2 is a groundbreaking resin that has received FDA approval for the manufacture of fixed hybrid prostheses. This material utilizes innovative NanoFusion™ technology, which offers exceptional durability and aesthetic quality. The result is an impressively lifelike appearance that closely resembles natural tooth enamel.



SprintRay OnX Tough 2 A1, 3 capsules	REF 311711
SprintRay OnX Tough 2 Bleach, 3 capsules	REF 311712



-  Various colors
-  55°C melting point

## ProMod universal sculpturing wax


Pro-Mod is an ideal sculpturing wax for gnathological wax-up techniques. It can be precisely drawn due to its high rigidity and low melting range. Cusp tips can be exactly elaborated due to its strength and non-deliqescence.

Pro-Mod chips properly, always leaving a plain surface.

### 70 g - regular

green	REF 02-1000
grey	REF 02-1010
ivory	REF 02-1020
blue	REF 02-1030



-  Various colors
-  Burns without residue
-  55°C Melting point

## Colors sculpturing wax


Colors by al dente – modern modelling wax in current neon colours. Colors distinguishes by an excellent rigidity and it is quick to cool. It's the ideal wax for all modelling applications.

It also suits for castable ceramic wax-ups.

### 70 g

neongreen	REF 02-1080
neonmagenta	REF 02-1090
neonorange	REF 02-1095



-  Burns without residue
-  55°C Melting point

## ProMod F - Milling wax

The combined technique makes different demands on the waxes used. For milling the wax should not be too hard or brittle. For milling, however, the wax should be of a certain hardness. Combining these basically different requirements in one single wax seems to be almost impossible. For this reason we adapted our milling wax to the different fields of activity.

### 70 g - F-0

mint-opaque	REF 02-1130
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### 70 g - F-1

green	REF 02-1100
grey-opaque	REF 02-1115



-  Various colors
-  Burns without residue
-  55°C Melting point

## ProMod VKS

al dente VKS waxes are non-opacifying and prevent unwanted reactions with investment materials. High stability and a low melting range make them ideal for gnathological wax-up techniques and precise modeling. Suitable for all common all-ceramic systems.

### 70 g

green	REF 02-1300
grey	REF 02-1310
blue	REF 02-1320
beige	REF 02-1370

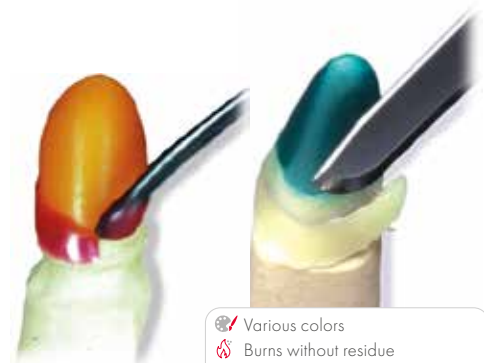
## ProMod C

### Cervikal wax

A cervical wax that every technician desires: lead-free, tension-free, soft-flowing, non-smearing, non-brittle, and absolutely precise. The light, transparent color allows the cervical margin to show through the wax, ensuring precise visual control of the cervical margin.

70 g

red	REF 02-1400
blue	REF 02-1410



- Various colors
- Burns without residue
- 59°C Melting point

## Sticky wax

### Universal Sculpturing wax

Special Sticky wax with very high adhesive power. Ideal for the fixing of break repairs, teeth, front walls and solder models. Because of its high hardness any distortion of the fixed work is impossible. al dente Sticky wax can be simply removed by use of a steam jet.

70 g

red	REF 02-1455
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- Various colors
- 71°C Melting point

## Technique Wax

### Universal Sculpturing wax

Sculpturing wax in a big 110 g block for universal applications. Now available in a softer texture as well! Excellent carving and sculpturing qualities. Available in 2 transparent colours, for castable ceramic systems, and 2 opaque colours for the casting technique. Very low contraction for a tension free modellation.

110 g - transparent

green	REF 02-1500
blue	REF 02-1505

110 g - opaque

beige	REF 02-1510
eisblue	REF 02-1515



- Various colors
- Burns without residue
- 57°C Melting point

## Tooth Sculpturing wax

### Universal Sculpturing wax

Universal sculpturing wax in the shape of the molar 26 – created by Wolfram Schultis, Karlsruhe (Germany).

Contraction-free wax available in two opaque and two transparent (ash-free) textures: both suited for metal casting and all-ceramics.

Its high stability as well as the low melting-point allow precise wax-ups: ideal for the gnathological wax-up technique. The inner stability of the wax guarantees proper carving features leaving a smooth surface.

40 g

beige-opaque	REF 02-1560
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- Burns without residue
- 55°C Melting point

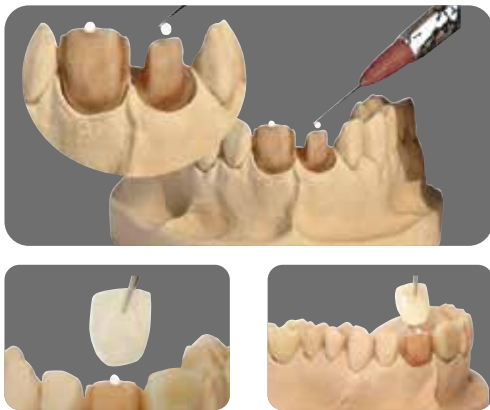


### Diagnostic wax

The organic "ash-free" diagnostic wax is adapted to the shades Vita A and white. Ideally suited for wax-ups and castable ceramic modellations.

- Various colors
- Burns without residue
- 76°C Melting point

70 g	
white	REF 02-1700
Vita A	REF 02-1710



### GluFi

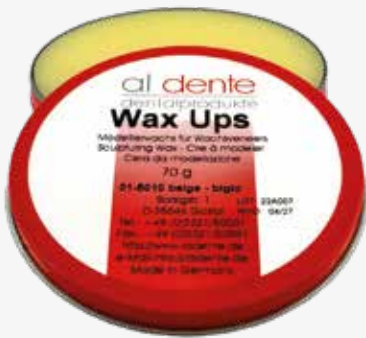
Temporary fixing gel for CAD/CAM workpieces

CAD/CAM-manufactured frameworks often sit too loosely on the model, posing a risk to the veneer.

GluFi ensures a secure hold: simply apply a small amount to the stump tips, place the framework on top, and you're done. No slipping, no bite elevation.

GluFi can be used multiple times, remains highly adhesive even after repeated removal and replacement, and burns without residue thanks to its low melting and flash points.

5 ml	
1 pc.	REF 02-6000



### Wax Up

Sculpturing wax for veneers

Wax Up Sculpturing wax was specially developed for sculpturing wax veneers.

- Burns without residue

70 g	
1 pc.	REF 02-5010



### Scanning wax

CAD/CAM Scanwax – Laser- and light-opaque modeling and blocking-out wax for detailed scans.

- Various colors
- 56°C Melting point

70 g - Sculpturing wax	70 g - Blockout wax
green	REF 02-1650
tan	REF 02-1640
grey	REF 02-1655
	green
	REF 02-1630

## Set-Up Plattenwax

Based on a balanced combination of beeswax, micro wax, and paraffin wax, Set-Up offers optimal properties for modeling. High plasticity, no springback, and cutting properties ensure precise work. Extra Pink super hard is characterized by very high hardness and extreme distortion resistance. The model remains stable even during longer try-ins, while its slight stickiness makes it easier to fix the teeth in place.

### 500 g

Regular (Winter)	REF 02-4020
Hard (Summer)	REF 02-4120
Extra Pink Superhard	REF 02-4155

### 2500 g

Regular (Winter)	REF 02-4010
Hard (Summer)	REF 02-4110
Extra Pink Superhard	REF 02-4145



- Plate size 175 x 80 mm
- Various hardness levels
- Burns without residue
- Solidification point:  
Summer: 59°C  
Winter: 57°C  
Superhard: 68°C

## Boxing wax

For a quick and secure positioning of the teeth. Colour red. Removes easily with warm water.

### 220 g - light pink

3 x 3 mm	REF 02-4160
5 x 5 mm	REF 02-4170

### 220 g - red

3 x 3 mm	REF 02-4180
5 x 5 mm	REF 02-4190



- Various sizes
- Various colors

## Alu bite wax

Bite registration wax with aluminum reinforcement insert. Due to the stable aluminum inlay, distortion of the bite registration is excluded.

### 250 g

1 pc.	REF 02-4300
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- Size: 175 x 80 x 2 mm

## Bite rims & bite sticks

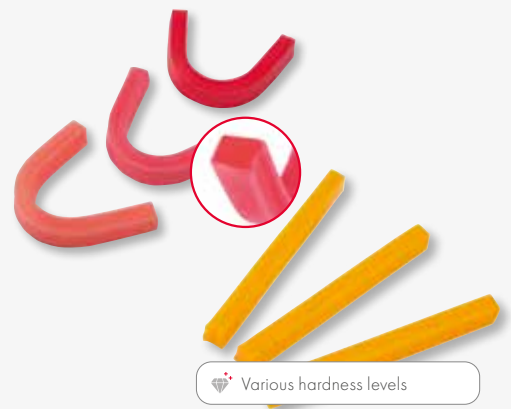
Pre-fabricated bite walls, either pre-curved or as rods, for the time-saving production of precise bite templates. The anatomical design with a basal groove allows the bite wall to be easily waxed onto the template. We offer three different hardnesses of bite walls and two hardnesses of bite rods.

### Bite rims 100 pcs.

soft	REF 02-4200
medium	REF 02-4210
hard	REF 02-4220

### Bite sticks 50 pcs.

medium	REF 02-4255
hard	REF 02-4260



- Various hardness levels



## Wax blocks

Without garland

No garland for optimal aesthetics thanks to full veneering of the pontic. The anatomical design of the wax parts simplifies ceramic layering.

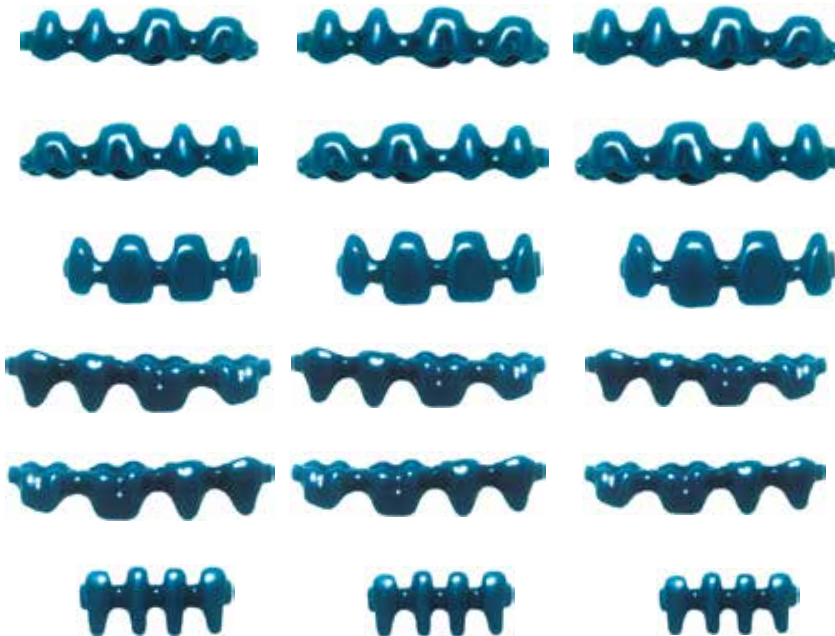
Occlusal depth for natural fissures. Lingual/palatal connection points allow for deeper separation of the labial side. The time saved by using the system leads directly to a noticeable increase in your productivity.

The wax pontics are available in different sizes, so that individual adjustment of the pontics is largely unnecessary and reduced to a minimum. Thanks to its optimal wax quality, the material impresses with excellent scraping and modeling properties, enabling precise and clean work. In addition, the hard wax ensures that distortion of the model is reliably prevented when lifting.

Size A

Size B

Size C




Block Teeth 24-27	Size A	01-0125A
	Size B	01-0125B
	Size C	01-0125C
Block Teeth 17-14	Size A	01-0225A
	Size B	01-0225B
	Size C	01-0225C
Block Teeth 12-22	Size A	01-0325A
	Size B	01-0325B
	Size C	01-0325C
Block Teeth 34-37	Size A	01-0425A
	Size B	01-0425B
	Size C	01-0425C
Block Teeth 47-44	Size A	01-0525A
	Size B	01-0525B
	Size C	01-0525C
Block Teeth 42-32	Size A	01-0625A
	Size B	01-0625B
	Size C	01-0625C

### Starter - kit

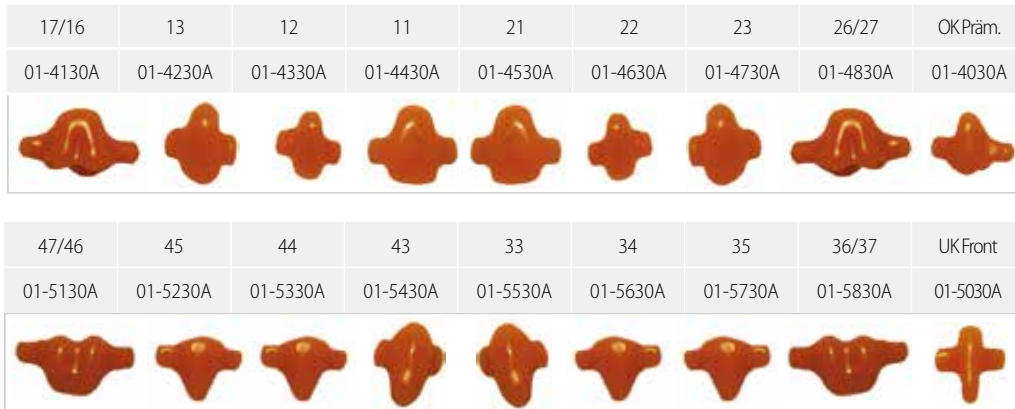
54 Blocks REF01-3001

The wax block starter kit includes 18x3 pieces and covers the entire range in all shapes and sizes.

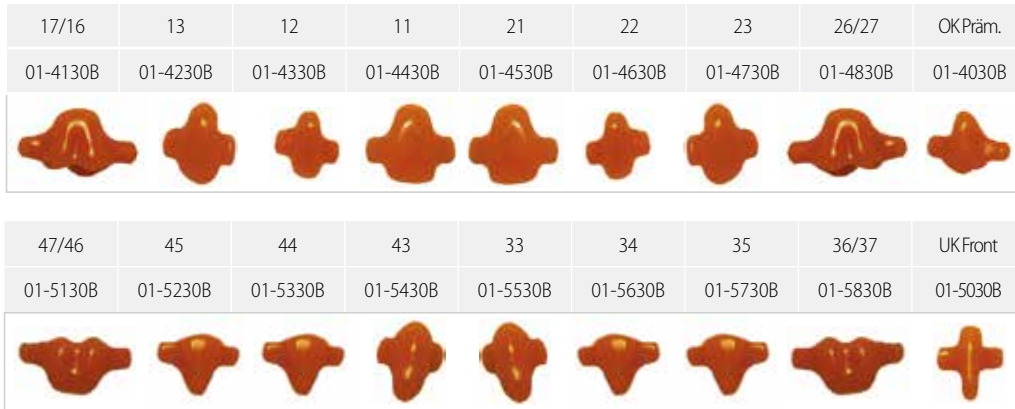
## Single parts

 Burns without residue

Size A



Size B



## Flexiform


Silicone forms

Fill Flexiform with wax, place it on the stump before the wax has cooled, close the articulator, allow the wax to harden, and remove Flexiform. The chewing surface is now complete.

Time savings of at least 5 minutes. With Flexiform, occlusal surfaces can also be produced in plastic or ceramic.

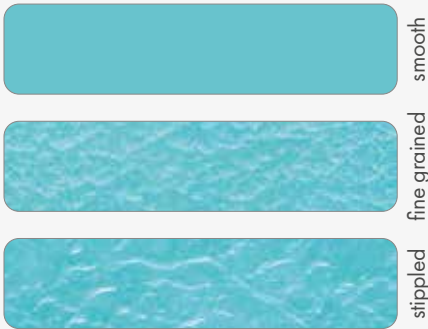


### Assortment

 16 Forms REF 04-1000

Contains all available forms.





smooth  
fine grained  
stippled

Size: 175 x 80 x 2 mm

## Casting Sheets

Al dente casting wax is available in sheet sizes of 75 × 150 mm and in sheet thicknesses ranging from 0.3 to 0.6 mm.

Various surface finishes—smooth, veined, or finely grained—allow for flexible adaptation to different requirements.

15 pcs. - smooth

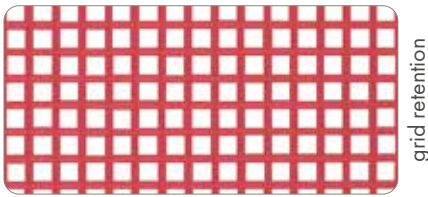
0,30 mm	REF 06-1030
0,40 mm	REF 06-1040
0,50 mm	REF 06-1050
0,60 mm	REF 06-1060

15 pcs. - fine grained

0,30 mm	REF 06-1130
0,40 mm	REF 06-1140
0,50 mm	REF 06-1150
0,60 mm	REF 06-1160

15 pcs. - stippled

0,30 mm	REF 06-1330
0,40 mm	REF 06-1340
0,50 mm	REF 06-1350
0,60 mm	REF 06-1360



grid retention



round hole

## Wax retentions

The al dente wax retainers are available in two versions: Fine retention grid or round hole retention.

20 pcs.

grid REF 06-1500

20 pcs.

hole REF 06-1520



straight



displaced

## Hole retentions

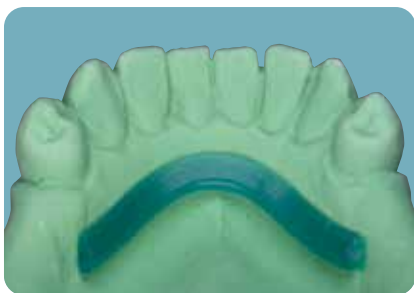
The al dente hole retentions are available in two versions: With straight or displaced holes.

40 pcs.

straight REF 06-1540

40 pcs.

displaced REF 06-1550



## Lower jar bars

65 g

1 pc. REF 06-1600

Size: 4 x 2 mm

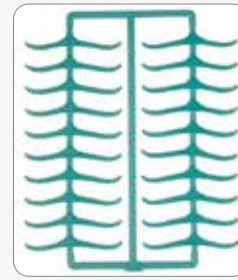
## Model casting technique

### Claps

Perfectly harmonizing wax quality in a consistent colour. The ash-free waxes can be adapted to the model without any tension. Markings can be easily seen through the transparent wax.

200 pcs.

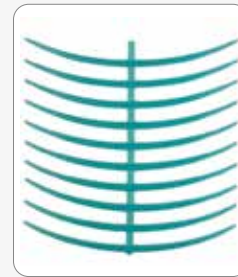
Premolar clasps	REF 06-1400
Molar clasps	REF 06-1410
Ring clasps	REF 06-1420
Bonyhard clasps	REF 06-1440



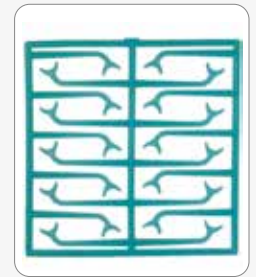
Premolar clasps



Molar clasps



Ring clasps



Bonyhard clasps

## Casting wax

The sculpturing wax has the same consistency as the wax patterns, which enables a harmonious modellation and it is not necessary to carve from hard into soft wax.

70 g

1 pc. REF 06-1700



53°C Melting point

## Casting Wax

Self-adhesive preparatory wax with replacement character for synthetic saddles and lingual clasps.

Adapts precisely to the model's surface and adheres to watered models, too.

32 pcs.

0,5 mm REF 06-1750





- Various colors
- Burns without residue

## Wax wire on spool

al dente wax wire has no elasticity and can be shaped without constrictions or cracks. Available in 2 different hardnesses, as well as in a transparent version for blocking out.

Can be boiled off without leaving any residue and does not discolor the model.

250 g - medium, blue

Ø 2,5 mm	REF 02-2010
Ø 3,0 mm	REF 02-2020
Ø 3,5mm	REF 02-2030
Ø 4,0mm	REF 02-2040
Ø 5,0mm	REF 02-2050

250 g - hard, green

Ø 2,5 mm	REF 02-2010H
Ø 3,0 mm	REF 02-2020H
Ø 3,5mm	REF 02-2030H
Ø 4,0mm	REF 02-2040H
Ø 5,0mm	REF 02-2050H

250 g - transparent

Ø 4,0mm	REF 02-2040TR
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- Burns without residue

## Sticky Sticks

Hard, dimensionally stable wax sticks ideal for the production of casting bars. The hard and sticky wax of the Sticky Sticks facilitates sprueing and prevents distortion of the casting object when the modelation is lifted off the model.

70 g

Ø 3,0 mm	REF 02-2210
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150 g

Ø 4,0 mm	REF 02-2230
Ø 5,0 mm	REF 02-2240



- 53°C Melting point

## Blockout wax

For blocking out undercuts in model casting technique. al dente block-out wax adheres firmly to the plaster and can be carved easily. Contains inorganic substances and is therefore not suitable as casting wax.

70 g

Ø 3,0 mm	REF 02-1480
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## Pro-Tec Blockout wax

Kneadable wax, for duplicating (model casting technique): for blocking out undercuts and for producing light-curing base plates. It is malleable and therefore easy to use.

- Kneadable
- Reusable
- Easy to evaporate or boil out
- Self-separating towards silicones, synthetics and gypsum

750 g

red	REF 02-1580
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## Perawax casting sprues (EM & NEM)

with reservoir

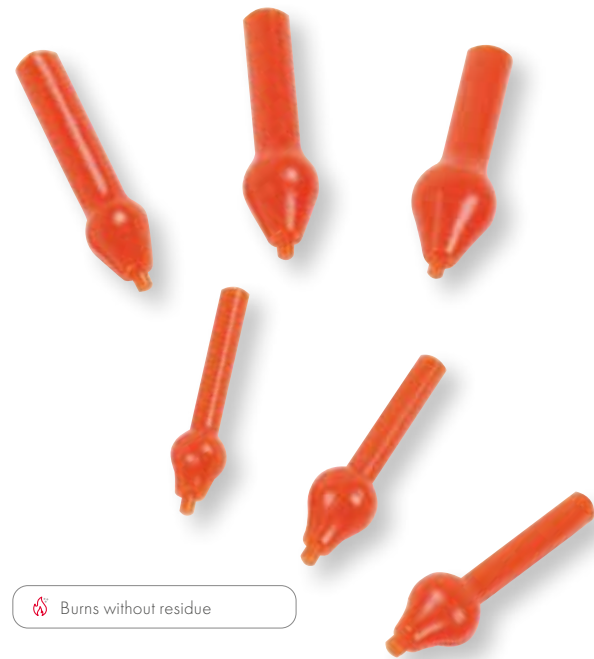
The al dente Perawax casting channels are characterized by their streamlined shape and ensure uniform flow behavior of the melt. The result is a more homogeneous casting structure without cavities.

The al dente casting sticks EM with head diameters of 6, 7, or 8 mm are specially designed for precious metal alloys.

The al dente casting sticks NEM have head diameters of 7, 8, or 9 mm and an enlarged channel cross-section, making them ideal for vacuum pressure casting as well as precious metal-reduced and NEM alloys.

### Benefits:

- Less turbulence in the incoming melt thanks to the redesign of the ball to the most ideal shape in terms of fluid dynamics: the nozzle.
- The result is a more homogeneous casting structure without cavities.
- Easy waxing of the stick by swirling the waxing pin.
- Easy and metal-saving separation after casting due to the channel diameter of 3 mm and the concave design of the reservoir.



Burns without residue

### Perawax EM casting sprues

Ø 0,6 mm 250 pcs. REF 02-1900

Ø 0,7 mm 250 pcs. REF 02-1905

Ø 0,8 mm 200 pcs. REF 02-1910

### Perawax NEM casting sprues

Ø 0,7 mm 250 pcs. REF 02-1870

Ø 0,8 mm 250 pcs. REF 02-1880

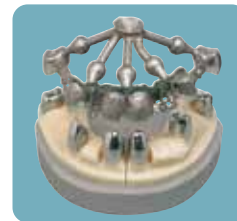
Ø 0,9 mm 200 pcs. REF 02-1890

### Starterset EM (all diameters)

350 pcs. REF 06-1920

### Starterset NEM (all diameters)

210 pcs. REF 06-1895





## Laser Weld Joints

according to ZTM Christian Frank

al dente laser weld joints enable stress-free and distortion-free connections with maximum process reliability. The prefabricated connecting elements ensure a reproducible, secure connection with consistent quality and save valuable time in everyday laboratory work.

They can be easily integrated into the existing workflow and support precise further processing – from the patrix on the crown to casting, blocking out, duplicating, and model casting completion.



Laser Welding



Matrix (L) + Patrix (R)

6 pcs. - Assortment

REF 01-8000

60 pcs. - Refill pack

Patrix REF 02-3000

Matrix REF 02-3010



## Adhesive bonds

al dente adhesive connections for a tension-free, permanent metal connection in combined dentures. The adhesive connections are available in 3 different angles of inclination (90°, 105°, 120°). This means that a suitable connection is available for every jaw situation.

Composite adhesives have proven ideal for bonding. Note: The generally applicable rules of statics must be observed. Do not use UV-curing adhesive for bonding.

### Benefits:

- No soldering
- No base metal solder in the patient's mouth
- Absolutely tension-free
- Approx. 1/2 hour time saving
- Cost reduction
- Quality improvement

6 pcs.

90° REF 01-7000

105° REF 01-7001

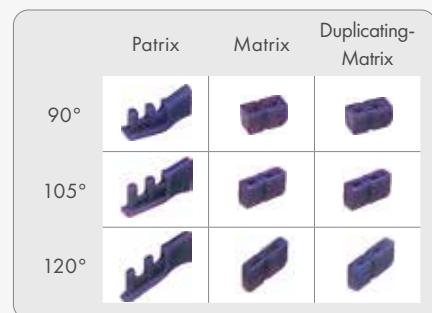
120° REF 01-7002

18 pcs. (3x6)

90° x6

105° x6 REF 01-7003

120° x6



60 pcs. Refill pack

Patrix Matrix Dupl. Matrix

90° REF 01-7100 REF 01-7110 REF 01-7120

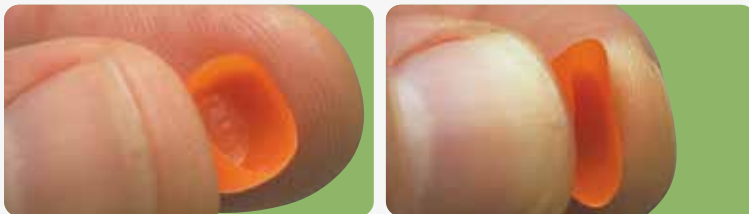
105° REF 01-7130 REF 01-7140 REF 01-7150

120° REF 01-7160 REF 01-7170 REF 01-7180

## Flexi-Dip

Elastic dipping wax

Flexi-Dip is the elastic dipping wax for achieving precisely fitting wax copings involving excellent carving and cutting properties. The high elasticity of the wax prevents the coping from an enduring deformation when removing it from the die. Thereby an easy adaptation and best fitting accuracy of the casted crowns is guaranteed. The physical properties provided by this special elastic wax almost come up to the properties of a thermoformed synthetic coping.



Ideal dipping wax temperature:

approx. 188,6°F result in a wall thickness of the coping of approx. 0,35 – 0,4 mm.

300 g

orange	REF 02-3000
violet	REF 02-3010
yellow	REF 02-3020

## Rod Attachments

A rigid extracoronary slide attachment. The male part (bar) is made of a synthetic material that burns without residues.

The exchangeable matrix (housing) is made of a permanently elastic and high precision synthetic material. In addition to the yellow matrix (set) there is also a black one available featuring a higher friction.



### Assortment

Patrx x7	
Matrix x7	REF 08-0001
Insert tool x1	

### Refill pack

Patrx	50 pcs.	blue	Profile bars	REF 08-0008
Matrix	50 pcs.	yellow	Universal	REF 08-0009
Matrix	6 pcs.	black	High friction	REF 08-0001

## Wax brush

For smoothing wax models and removing wax chips.



1 pc.

REF 09-1100



## Rational

### Instant adhesive

Affordable instant adhesive with an improved formula and excellent adhesive strength for everyday use in the laboratory. Suitable for almost all materials used in dental laboratories. The adhesive offers reliable adhesion, easy handling, and clean working properties—an economical solution for a wide range of applications in everyday laboratory work.

 20 ml

1 pc. REF 03-1040

 20 ml

5 pcs. REF 03-1050

 20 ml

10 pcs. REF 03-1060



## Universal

### Instant adhesive

The al dente instant adhesive Universal impresses with its reliable adhesion and easy handling in everyday laboratory work. The well-designed twist cap ensures clean working and prevents the nozzle from sticking unnecessarily. This means that the adhesive remains ready for use for a long time. The universal consistency is ideal for numerous standard applications and offers reliable results with a wide variety of materials. Application: Bonding pins, gypsum, and plastics

 20 ml

1 pc. REF 03-1000



## Kapillar


### Instant adhesive

The al dente instant adhesive capillary thin-flow is the right choice for particularly precise work. Thanks to its extremely thin-flow consistency, it reliably penetrates even the finest gaps. The special twist cap supports clean working and minimizes the risk of a sticky nozzle. Application: Sealing, hardening, and bonding

 20 ml

1 pc. REF 03-1020



 Various colors

## Occlusion spray

al dente Occlusion Spray quickly identifies interfering contacts with a fine, even spray mist for precise contact visualization. Economical to use, high contrast, easy to remove with water, CFC-free, environmentally friendly propellant, and non-flammable formulation. Available in several colors.

 75 ml

green REF 03-1230

blue REF 03-1235

white REF 03-1240

red REF 03-1245

## Iso Pro C

Isolation agent ceramics - gypsum

Very good insulating effect of ceramic against plaster. Very thin insulating film. The insulating effect lasts for a long time. No discoloration of the ceramic. Leaves no residue.

 20 ml

2 pcs. REF03-1150



## Iso Pro W

Isolation agent wax - gypsum

Iso-Pro zieht vollständig in die Gipsoberfläche ein und trägt somit keinen störenden Film auf. Iso-Pro zeichnet sich durch die sehr gute Isolierwirkung bei nur einmaligem Auftrag aus. Iso-Pro ist alkoholfrei und wasserlöslich, verhält sich deshalb neutral gegenüber Sculpturing waxen und Einbettmassen.

 30 ml

2 pcs. REF03-1100

 250 ml Refill bottle

2 pcs. REF03-1110



## Iso Pro 3D

Isolation agent for 3D resins

Iso-Pro is completely absorbed into the plaster surface and therefore does not leave a disturbing film. Iso-Pro is characterized by its excellent insulating effect with just one application. Iso-Pro is alcohol-free and water-soluble, and therefore has a neutral effect on sculpturing waxes and embedding compounds.

 50 ml

1 pc. REF03-1195



## Gingiva Separator

Isolation agent for non-compatible materials

Gingiva Separator is an insulating and separating agent for incompatible materials. It is ideal for use with autopolymer materials in combination with A-silicones, C-silicones, or 3D-printed plastic models. It is also ideal for the sprinkling method in orthodontics and for the manufacture of prothesis.

 50 ml

1 pc. REF03-1130



Various colors

## Pro Die Spacer & Hardener

Pro-Die Spacer sind hochwertige Stumpflacke, die durch eine schnelle Trocknungszeit und hohe Endhärte überzeugen. Die spezielle Formulierung ist resistent gegen Abdampfen und bietet eine hohe Deckfähigkeit. Pro-Die Hardener (O $\mu$ ) zum Härten, Versiegeln und Schützen von Gipsstümpfen. Trägt nicht auf. Zieht vollständig in den Gips ein.

### 2 x 20 ml - Spacer

transparent	3 $\mu$	REF 03-2000
red	7 $\mu$	REF 03-2040
blue-opaque	7 $\mu$	REF 03-2060
beige-opaque	7 $\mu$	REF 03-2070

### 2 x 20 ml - Spacer

silber-opaque	12 $\mu$	REF 03-2090
gold opaque	12 $\mu$	REF 03-2100
Verdüner		REF 03-2190

### 2 x 20 ml - Hardener

transparent	REF 03-2020
Verdüner	REF 03-2190

## Pro Lux

### Light curing Die Spacer

The light-curing spacer with powerful properties. Curing takes place within approx. 90 seconds under all standard light curing units (light color 78) and under stroboscopic lamps. After curing, Pro-Lux is rock hard, yet not brittle, and can withstand any steam cleaner.

Also suitable for sealing the model base under bridge elements – layered ceramics no longer break off and can be easily removed from the model.

### 20 ml

transparent	10 $\mu$	REF 03-2200
red	10 $\mu$	REF 03-2210

## Ceramic texture marker

Matches the surface structure of natural teeth exactly. Available in "gold" and "silver," ready to use without primer. Clean application, easily removable with water or steam.



Various colors

### 2 x 20 ml

gold + thinner	REF 03-1250
silber + thinner	REF 03-1260

### 2 x 20 ml

Thinner	REF 03-1220
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## Ceramic mixing fluid

The al dente ceramic mixing liquid impresses with its excellent stability and allows for wetter layering of the ceramic materials. This ensures even drying after modeling, resulting in more homogeneous sintering and more brilliant colors.

The drying time is approximately 4 minutes. The mixing liquid is suitable for powder opaque and shoulder materials and can be used with all common ceramic materials.



### 250 ml

REF 03-1450

### 1000 ml

REF 03-1460

## Contact Marker

Fluid, low-viscosity pigment (3 $\mu$ ) for a systematic identification of imperfections in crowns, inlays and attachment parts. The Contact Marker adheres to all materials such as metal, plaster and synthetic material. The Contact Marker covers reliably after one application only and can easily be removed with water. It is available in 3 colours.



2 x 20 ml

blue	REF 03-1230
white	REF 03-1235
red	REF 03-1240

2 x 20 ml

Thinner	REF 03-1220
---------	-------------

Various colors

## Colloidal Graphite

Irregularities can be easily found applying a thin layer on the matrix or the male part of an attachment – thereby adaption is facilitated.



20 ml

Brush bottle REF 03-1300

20 ml

Thinner REF 03-1310

## Pro Seal Wax sealing

Pro Seal wax sealing is applied to the occlusal surface of the modellation before investment (drying time about 5 minutes). By applying Pro-Seal (thickness approx. 5 $\mu$ ), small scratches and unevennesses are levelled.

Contact points can be specifically applied. The modellation gets polished. After casting the surface gets more homogeneous, thereby the elaboration time is reduced.



20 ml

Brush bottle REF 03-2300

20 ml

Thinner REF 03-2310

## Aqua Spacer

Laseropak in dentin basic shade A. Aqua Spacer is water-soluble, ideal for CAD/CAM and all-ceramics. Plaster dies can be covered in tooth shade to avoid color distortions. The thin layer thickness does not impair the fit.



20 ml

Spacer - Vita A	REF 03-4110
Isolation	REF 03-4160
Thinner	REF 03-4170

	Ø 120 mm	Ø 125 mm
2,00 mm	10 pcs. REF 3020120010 50 pcs. REF 3020120050	10 pcs. REF 3020125010 50 pcs. REF 3020125050
3,00 mm	10 pcs. REF 3030120010 50 pcs. REF 3030120050	10 pcs. REF 3030125010 50 pcs. REF 3030125050
4,00 mm	10 pcs. REF 3040120010 50 pcs. REF 3040120050	10 pcs. REF 3040125010 50 pcs. REF 3040125050

## COMBILOC PLUS

Hard-soft two-layer sheet made of PETG (hard top) and EVA (soft bottom), transparent, with insulating film for easier post-processing. The hard side can be built up with acrylate. More comfortable to wear thanks to the soft inner side. Therefore particularly well suited for miniplast and bite splints.

Transparency	● ● ● ● ○
Flexibility	● ● ○ ○ ○
Toughness	● ● ● ○ ○

	Ø 120 mm	Ø 125 mm
2,00 mm	10 pcs. REF 3120120010 50 pcs. REF 3120120050	10 pcs. REF 3120125010 50 pcs. REF 3120125050
3,00 mm	10 pcs. REF 3130120010 50 pcs. REF 3130120050	10 pcs. REF 3130125010 50 pcs. REF 3130125050
4,00 mm	10 pcs. REF 3140120010 50 pcs. REF 3140120050	10 pcs. REF 3140125010 50 pcs. REF 3140125050

## COMBILOC PRO

Hard-soft two-layer sheet made of PETG and TPU. This offers very high strength while still being comfortable to wear. With additional insulating film. Hard side can be built up with acrylate. For the manufacture of miniplast, bite or grinding splints, Michigan splints, firmer correction splints, or retainers.

Transparency	● ● ● ● ○
Flexibility	● ● ○ ○ ○
Toughness	● ● ● ● ○

↓ ↑	Ø 120 mm	Ø 125 mm
0,50 mm	20 pcs. REF 581-012-016 100 pcs. REF 581-012-165	20 pcs. REF 581-012-016-125RD 100 pcs. REF 581-012-165-125RD
0,60 mm	20 pcs. REF 4006120020 100 pcs. REF 4006120100	20 pcs. REF 4006120020-125RD 100 pcs. REF 4006120100-125RD
0,70 mm	20 pcs. REF 581-012-018 100 pcs. REF 581-012-167	20 pcs. REF 581-012-018-125RD 100 pcs. REF 581-012-167-125RD
1,00 mm	20 pcs. REF 4010120020 100 pcs. REF 4010120100	20 pcs. REF 4010120020-125RD 100 pcs. REF 4010120100-125RD
1,50 mm	10 pcs. REF 581-012-059 50 pcs. REF 581-012-169	10 pcs. REF 581-012-059-125RD 50 pcs. REF 581-012-169-125RD

## FOLIEN

Soft, elastic thermoforming sheet made of polyethylene, burns without residue and is therefore ideal for the production of molded parts and as a placeholder or transfer splints.

Transparency	● ● ○ ○ ○
Flexibility	● ● ● ● ○
Toughness	● ○ ○ ○ ○

## FOLIDUR N

Tough, elastic thermoforming sheet made of polyethylene terephthalate glycol (PETG), with particularly high transparency and additional insulating film for easier post-processing. Bonds with acrylate. Particularly suitable for bite splints and occlusal splints, e.g., grinding splints, Michigan splints, miniplast splints (according to Drum), stabilization splints, as well as for correction splints, aligners, retainers, or orthodontic appliances.

Transparency	● ● ● ● ●
Flexibility	● ● ○ ○ ○
Toughness	● ● ● ● ○

### ø 120 mm

### Ø 125 mm

0,50 mm	20 pcs. REF 2005120020 100 pcs. REF 2005120100	20 pcs. REF 2005125020 100 pcs. REF 2005125100
0,60 mm	20 pcs. REF 2006120020 100 pcs. REF 2006120100	20 pcs. REF 2006125020 100 pcs. REF 2006125100
0,80 mm	20 pcs. REF 581-012-049 100 pcs. REF 581-012-153	20 pcs. REF 581-012-049-125RD 100 pcs. REF 581-012-153-125RD
1,00 mm	20 pcs. REF 2010120020 100 pcs. REF 2010120100	20 pcs. REF 2010125020 100 pcs. REF 2010125100
1,50 mm	10 pcs. REF 2015120010 50 pcs. REF 2015120050	10 pcs. REF 2015125010 50 pcs. REF 2015125050
2,00 mm	10 pcs. REF 2020120010 50 pcs. REF 2020120050	10 pcs. REF 2020125010 50 pcs. REF 2020125050
3,00 mm	10 pcs. REF 2030120010 50 pcs. REF 2030120050	10 pcs. REF 2030125010 50 pcs. REF 2030125050
4,00 mm	10 pcs. REF 581-012-304 50 pcs. REF 581-012-311	10 pcs. REF 581-012-304-125RD 50 pcs. REF 581-012-312-125RD
5,00 mm	10 pcs. REF 581-012-305 50 pcs. REF 581-012-312	

## FOLIDUR ALIGN

Tough, elastic, hard thermoforming sheet made of PETG, highly transparent and with additional insulating film. Very dimensionally stable and break-resistant. For the manufacture of corrective splints, clear aligners, and retainers.

Transparency	● ● ● ● ●
Flexibility	● ● ○ ○ ○
Toughness	● ● ● ○ ○

### ø 120 mm

### Ø 125 mm

0,60 mm	20 pcs. REF 581-012-250 100 pcs. REF 581-012-255	20 pcs. REF 581-012-220 100 pcs. REF 581-012-225
0,80 mm	20 pcs. REF 581-012-260 100 pcs. REF 581-012-265	20 pcs. REF 581-012-230 100 pcs. REF 581-012-235
1,00 mm	20 pcs. REF 581-012-270 100 pcs. REF 581-012-275	20 pcs. REF 581-012-240 100 pcs. REF 581-012-245

## NEW: XL SHEETS - Ø 428 mm

### FOLIDUR XL

Tough PETG thermoforming sheet, Ø 428 mm, break-proof, UV-resistant, highly transparent, with additional insulating film. Ideal for the efficient production of bite splints, correction splints/aligners, and retainers using the "MultiSplint" pressureformer.

#### ø 428 mm

0,80 mm	5 pcs. REF 2208428005
1,00 mm	5 pcs. REF 2210428005

### FOLIFLEX XL

Soft, elastic EVA thermoforming sheet with high resilience, Ø 428 mm for the MultiSplint pressureformer. Does not bond with acrylate, can be laminated, and is ideal for sports mouth guards, duplicate molds, bracket transfer trays, positioners, and soft splints.

#### ø 428 mm

1,50 mm	5 pcs. REF 1315428005
2,00 mm	5 pcs. REF 1320428005

## FOLIFLEX

Soft, elastic ("rubbery") thermoforming sheet made of ethylene vinyl acetate (EVA) with high resilience. Does not bond with acrylate, but is laminatable and well suited for the manufacture of, for example, sports mouth guards, duplicating molds, bracket transfer splints, positioners, and other soft splints.

Transparency	●	●	●	●	○
Flexibility	●	●	●	●	○
Toughness	●	●	○	○	○

	Ø 120 mm	Ø 125 mm
1,00 mm	20 pcs. REF 581-012-050 100 pcs. REF 581-012-128	20 pcs. REF 581-012-050-125RD 100 pcs. REF 581-012-128-125RD
1,50 mm	10 pcs. REF 581-012-051 50 pcs. REF 581-012-129	10 pcs. REF 581-012-051-125RD 50 pcs. REF 581-012-129-125RD
2,00 mm	10 pcs. REF 581-012-052 50 pcs. REF 581-012-130	10 pcs. REF 581-012-052-125RD 50 pcs. REF 581-012-130-125RD
3,00 mm	10 pcs. REF 581-012-054 50 pcs. REF 581-012-131	10 pcs. REF 581-012-054-125RD 50 pcs. REF 581-012-131-125RD
4,00 mm	10 pcs. REF 581-012-055 50 pcs. REF 581-012-132	10 pcs. REF 581-012-055-125RD 50 pcs. REF 581-012-132-125RD
5,00 mm	10 pcs. REF 581-012-056 50 pcs. REF 581-012-133	

## FOLIFLEX BLEACH

Elastic thermoforming splint made of ethylene-vinyl copolymer with a slightly higher final hardness than FOLIFLEX. Particularly suitable for the production of bleaching and medication carriers as well as fluoridation trays. Does not bond with acrylate.

Transparency	●	●	●	●	○
Flexibility	●	●	●	○	○
Toughness	●	●	⊙	○	○

	Ø 120 mm	Ø 125 mm
1,00 mm	20 pcs. REF 581-012-053 100 pcs. REF 581-012-126	20 pcs. REF 581-012-053-125RD 100 pcs. REF 581-012-126-125RD

## FOLIFLEX PRO

Hard-elastic thermoforming sheet made of ethylene vinyl acetate, transparent, with high resilience and a final hardness of 95 Shore A. Can be laminated and is ideal for bite splints, positioners, and grinding splints.

Transparency	●	●	●	○	○
Flexibility	●	●	●	○	○
Toughness	●	●	●	○	○

	Ø 120 mm	Ø 125 mm
1,50 mm	10 pcs. REF 1215120010 50 pcs. REF 1215120050	10 pcs. REF 1215125010 50 pcs. REF 1215125050
2,50 mm	10 pcs. REF 1225120010 50 pcs. REF 1225120050	10 pcs. REF 1225125010 50 pcs. REF 1225125050
3,00 mm	10 pcs. REF 1230120010 50 pcs. REF 1230120050	10 pcs. REF 1230125010 50 pcs. REF 1230125050
4,00 mm	10 pcs. REF 1240120010 50 pcs. REF 1240120050	10 pcs. REF 1240125010 50 pcs. REF 1240125050

## Indications

Our thermoforming materials cover a wide range of dental and orthodontic applications.

The following table provides an overview of the recommended areas of use for our sheets. A great variety of indications can be reliably implemented—from soft, flexible applications to stable & tough splints.

The information is provided for guidance only and is based on our recommendations from practice and laboratory experience.

	COMBILOC PLUS	COMBILOC PRO	FOLIFLEX	FOLIFLEX BLEACH	FOLIFLEX PRO	FOLIDUR N	FOLIDUR ALIGN	FOLILEN
Aligner / Splint therapy						✓	✓	
Bruxism splint / Bite splint / Miniplast splint	✓	✓			✓	✓		
Bleaching splint / Fluoridation splint			✓	✓	✓			
Bracket transfer / Duplicating models			✓	✓				✓
Castings / Casting caps						✓		✓
Expansion panel						✓		
Essix Retainer / Hawley Retainer						✓		
Guarding splint / Mouthguard	✓	✓	✓		✓			
Medication tray			✓	✓				
Michigan splint	✓	✓			✓	✓		
Planning templates / drilling templates						✓		
Positioner			✓		✓	✓		
Retainer / Retention splint	✓				✓	✓	✓	
Spacer / Compensation foil								✓
Stabilizer			✓		✓	✓		
Temporaries						✓		
X-Ray Splint			✓		✓	✓		



## MultiSplint

High efficiency pressure former

Professional pressure molding machine that sets new standards in accuracy and speed. The powerful MultiSplint combines many years of experience, innovative development work, and high-performance technology. The result is a revolution in proven thermoforming technology.

Simple – fast – efficient!

### Increased efficiency

Thanks to the large-format film materials, up to 20 models can be processed in a single thermoforming process with the MultiSplint. Alternatively, the familiar 120 & 125 mm films can also be used with the 7 Shot Adapter.

Benefit from maximum process optimization and enjoy absolute flexibility.



### HIGH EFFICIENCY

Up to 20 models in one processing step



### FLEXIBLE

Also suitable for 120 & 125 mm sheets with the adapter



### INDEPENDENT

No compressed air is needed for operation



### USER FRIENDLY

Easy to use touch interface

### Benefits of the MultiSplint

- Sheet strengths from 0.1 mm to 5.0 mm can be used
- Sheet holder for 428 mm large-format sheets or Ø120 mm and 125 mm with 7-shot adapter
- Highly efficient: up to 20 models in one run
- Leveling system ensures distortion-free finishing
- Material parameters – get started easily
- Material strategies are customizable
- Built-in compressor allows free choice of location, as no external compressed air connection is required

### Technical Data

Power Supply	230V / 50 hz oder 100-120V
Power	1500 W
Pressure	bis 4,0 bar
Temperature	bis 225°C

### Dimensions & Weight

Dimensions	57,8x60x42,5 cm
Weight	59 kg

1 pc.

MultiSplint

REF 581-003-030

Delivery includes the firmware, base plate, 7 Shot adapter, and material samples.

## DunaTronic

### Vacuum former

The ideal solution for all common applications in the field of thermoforming technology. Thanks to the short-wave infrared heater, there is no preheating time, allowing you to start working immediately. A compressed air connection is not required, which greatly simplifies handling.

The quick-release clamp allows the use of films with a thickness of 0.1 mm to 5.0 mm. The device can be freely programmed via a membrane keyboard and provides visual and acoustic time information. The sturdy die-cast aluminum housing ensures durability and robustness in daily use

### Benefits of the DunaTronic

- Sheet thicknesses 0.1 mm – 5.0 mm can be used
- Sheet Holder for Ø120mm
- No preheating thanks to short-wave infrared heater
- No compressed air connection required
- Freely programmable using buttons + display
- Feedback visual and acoustic
- Sturdy housing made of die-casted aluminum

#### Technical Data

Power Supply	230V / 50 hz
Power	850 W
Vacuum	-0,8 bar

#### Dimensions & Weight

Dimensions	27 x 32 x 26 cm
Weight	9 kg

1 pc.

DunaTronic REF 581-003-009

Delivery includes a sample assortment of sheets and 2 kg of filling granulate.



## DunaForm Plus

### Pressure former

Dunaform Plus is a particularly user-friendly thermoforming device thanks to its simple and clear user interface.

Its short-wave infrared heater eliminates the need for preheating, and the preset film parameters enable efficient working.

In addition, you can also set your own freely programmable film parameters.

### Benefits of the DunaForm Plus

- Sheet thicknesses 0.1 mm – 5.0 mm can be used
- Sheet Holder for Ø120mm and 125 mm
- No preheating thanks to short-wave infrared heater
- Heating on the side facing the model
- Freely programmable using buttons + display
- Preinstalled Parameters
- Feedback visual and acoustic
- Sturdy housing made of die-casted aluminum

#### Technical Data

Power supply	230V / 50 hz
Power	850 W
Pressure	up to 6 bar

#### Dimensions & Weight

Dimensions	35 x 30 x 19 cm
Weight	8,5 kg

1 pc.

DunaForm Plus REF 581-003-006

Delivery includes a sample assortment of sheets and 2 kg of filling granulate.





## Filling granule

Non-leaded filling granules for embedding models.  
Suitable for all thermoforming units. Magnetic.

1 kg

REF 581-004-028



## Granules covering sheet

Upper and lower jaw cover sheets in 2 different sizes each – 8 pcs, for covering the filling granules during thermoforming. This prevents the granules from sticking to the thermoforming sheet.

4x2 pcs.

REF 581-004-035



## Blocking out wax

The wax can be easily removed by using boiling water.

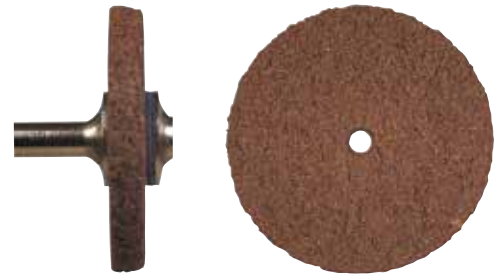
110 g

white REF 581-004-011

85°C Melting point

## Grinding discs

Grinding disc for grinding casting channels of model casting- and non-precious metal frames.



RPM max 25.000 1/min

50 pcs.

Ø 35 x 3 mm REF 05-1030

100 pcs.

Ø 22 x 3 mm REF 05-1020

## Polishing discs

For smoothing and polishing thermoforming materials.



10 pc.

Mandrel REF 581-004-042

## FoliCut

Sheet scissors, straight or curved

The FoliCut is suitable for cutting soft film materials and hard films up to a thickness of approx. 1 mm. It is available in straight and curved versions and enables precise, clean work.



1 pc.

straight REF 581-004-036

1 pc.

curved REF 581-004-037

## FoliCut Pro

Sheet scissors, ridged

The FoliCut PRO (105 mm) is also suitable for soft film materials and hard films up to approx. 1 mm thick. The single-sided serration enables particularly easy and precise cutting.



1 pc.

toothed REF 581-004-046



## Luxomat D

Light polymerization device

Powerful light-curing devices for curing light-curing dental materials such as custom impression trays, sealing varnishes, and block-out materials.

The polymerization chamber offers sufficient space for up to 4 models or a standard articulator. The combination of 2 UVA and 2 blue light tubes arranged in a semicircle provides homogeneous polymerization light for safe and even curing of light-curing plastics.

Choice of curing times of 5 minutes, 10 minutes, or continuous operation, indicated by LED.

⊕ Internal dimensions:

L 16 x W 16,5 x H 11,5 cm

Spectral range:

350 - 500 nm

1 pc.

Luxomat D REF 581-009-020

Replacement lamps

1 pc.

UVA-Lighting tube 9W, 350-400 nm REF 581-009-022

1 pc.

Blue Lighting tube 9W, 400-500 nm REF 581-009-023



## Luxomaxi

Light polymerization device

The Luxomaxi is equipped with two 9-watt UVA and two 9-watt UVB tubes, enabling fast and reliable curing of light-curing dental materials.

The LED display can be used to set curing times of 5 minutes, 10 minutes, or continuous operation.

Spectral range:

350 - 500 nm

1 pc.

Luxomaxi REF 581-009-016

Replacement lamps

1 pc.

UVA-Lighting tube 9W, 350-400 nm REF 581-009-022

1 pc.

Blue Lighting tube 9W, 400-500 nm REF 581-009-023

## AQUA Pressure pot

### Pressure polymerization pot

The AQUA pressure pot enables homogeneous, bubble-free polymerization of autopolymer materials.

Depending on the model, it offers sufficient space for different applications—the 7L version even accommodates standard articulators, cuvettes, and relining devices.

This allows bite splints and orthodontic appliances to be fabricated directly on articulated models.

#### ✚ Dimensions & Weight

	4,5 l	7,0 l
Inner diameter:	220 mm	220 mm
Inner height:	110 mm	210 mm
Weight:	2,2 kg	2,6 kg

#### ⚙️ Technical Data

Operating pressure	2,0 bar
Overpressure	max. 2,2 bar
Operating temp.	max 55°C



#### 🔴 1 pc. without filling hose

4,5 l Pressure pot REF 581-009-024

7,0 l Pressure pot REF 581-009-026

#### 🔴 1 pc. with filling hose

4,5 l Pressure pot REF 581-009-025

7,0 l Pressure pot REF 581-009-027

#### 🔴 1 pc. Filling hose

Filling hose with valve REF 581-009-006

## Pressure pot - Service

### Safety inspection & repair

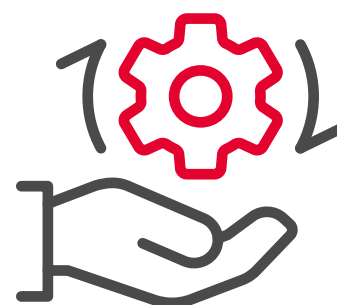
To avoid hazards, you should have your pressure pots checked regularly. As the manufacturer, we offer you a professional safety inspection at an attractive flat rate. This ensures user safety and helps to extend the service life. Even if a pressure pot is defective, we can often remedy the situation with a professional repair.

#### Procedure:

Send us your pressure pot without prior notification. We only need a short cover letter with your contact details and your request for a safety inspection. Maintenance is carried out within 2-3 working days.

#### Warranty:

The warranty for your Aqua pressure pot is extended to 3 years, provided that a safety inspection has been carried out at our premises after 24 months. There is no warranty claim on the seals.



Contact: [verkauf@siladent.de](mailto:verkauf@siladent.de)

+49 (05321) 3 77 90



## Aqua hotplate

Electric heating plate

High-quality single hotplate with gray lacquered housing and a heating plate diameter of 180 mm.

The power of the heating plate can be continuously adjusted; when the knob is set to 4, a constant water temperature of 55°C is maintained.

### + Dimensions & Weight

Maße (LxWxH)	24,4 x 27,5 x 7 cm
Gewicht	110 mm

### + Technical Data

Power supply:	230 V
Frequency	50/60 Hz
Power	900 W
Operation	stepless, rotary knob

1 pc.

REF 581-009-008



## Ceramic hotplate „Stuart“

Electric heating plate

The all-purpose hotplate with glass ceramic plate and excellent chemical resistance. The surface is easy to clean and allows high plate temperatures for faster heating.

### + Dimensions & Weight

Dimensions (LxWxH)	17,2 x 12,2 x 24,8 cm
Weight	2,2 kg

### + Technical Data

Power supply:	230 V
Frequency	50/60 Hz
Power	500 W
Operation	stepless, rotary knob
max. Temperature	450 °C

1 pc.

REF 581-009-008

## Reline-Jig

A simple, stable and handy device for denture relining providing exact results. The three-point fixing ensures a perfect alignment and prevents the plate from tilting; thereby differences in height or dislocations are eliminated.

### Material:

Aluminum alloy plates, brass bolts and nuts.

### Dimensions (LxWxHT):

110 x 98 x 70 mm

1 pc.

REF 03-3035



## LuxoTray

### Light-curing tray material

Light-curing tray material with excellent physical properties. Easy to adapt on the model due to the composite's inert material composition.

Very stable in dimension and break resistant. Preformed upper jaw plates are available in pink or transparent.

50 pcs.

pink

REF 03-3035

50 pcs.

transparent

REF 03-3045



Various colors

Light curing

## Blockout

### Light-curing block out material

Light-curing blockout material with excellent modeling and adhesion properties. al dente Blockout can be polymerized using any commercially available light-curing device. Once polymerization is complete, the material is edge-stable and can be reworked.

3 g

blue

REF 03-3200

15g (5 x 3g)

blue

REF 03-3210



Light curing

## Blockout Liquid

### Light-curing block out liquid

Light-curing blockout material with excellent modeling and adhesion properties. al dente Blockout can be polymerized using any commercially available light-curing device. Once polymerization is complete, the material is edge-stable and can be reworked.

3 g

blue

REF 03-3240

15g (5 x 3g)

blue

REF 03-3250



Light curing

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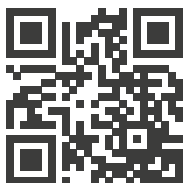
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■ Terms & Conditions

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**SILADENT** Dr. Böhme & Schöps GmbH  
Im Klei 26 · DE-38644 Goslar

Tel. +49 (0) 53 21 / 37 79 - 0

Fax +49 (0) 53 21 / 38 96 32

[info@siladent.de](mailto:info@siladent.de)  
[www.siladent.de](http://www.siladent.de)

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