BEGO CATALOGUE DENTAL TECHNOLOGY

Valid form March 2017

Partners in Progress

BEGO

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Managing Partner of BEGO

Trustworthiness and reliability for today and the future

Dear interested parties,

The dental world is continually in flux. New materials, procedures and devices present dental technicians, dentists and implantologists with the challenge of staying abreast of contemporary developments in order to provide the best technical and highest-quality solutions. Yet, at the same time, they also have to guarantee that these solutions are economically viable. It is the good right of patients to expect nothing less.

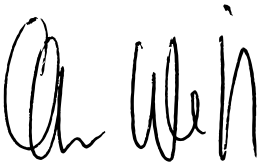
In this situation it is good to have a fixed anchor point. A partner with comprehensive know-how, which has been gained in the course of many decades of experience, and a partner that, time and again, has set milestones as a pioneer of innovative ideas. Briefly stated: A partner like BEGO, which has already been demonstrating exactly these traits, every day, for over 125 years.

Be it because of our comprehensive competence in materials and alloys, our mastery of digital processes and production methods, the successful implementation of bionic insights gained in the field of implantology, the cooperation with the scientific world, or application-specific consultation offered at master-expert level: Operators worldwide rely on this specific BEGO competence, which has seen us become one of the internationally leading dental companies – with the unique portfolio of products and services "Made in Germany".

In everything we do, we are always guided by the principles of trustworthiness and reliability. These principles constitute the foundation for the cooperation with our customers, partners and employees. Our mutual objective: Peak performance in customer service and product quality.

Completely in tune with current developments, yet also keeping the future firmly in sight. This is what BEGO stands for. To ensure that you are always on the safe side – and always in the vanguard.

Bremen, in the spring of 2017



Christoph Weiss

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* Please find the alphabetical index at the end of this catalogue.

3D PRINTING

With Varseo S BEGO offers a 3D printing system specifically designed for dental purposes for manufacturing various indications in the lab. The Varseo S 3D printing system includes, in addition to the printer and a post-curing device, the associated materials, software tools and services for quick, simple and economical creation of e.g. splints, models, surgical guides, CAD/Cast partial denture casting frames and individual impression trays.

Our 3D printing system makes you MDR ready!

Validated processes from scanning to finishing and the associated process documentation offer you the certainty that future medical product manufacture requirements will be met in compliance with Medical Device Regulation (MDR).

Varseo S – The 3D printing system specially developed for dental uses with an innovative cartridge system

- Compact and stylish design
- Approximately 30 % larger building plate than the previous Varseo model
- Simultaneous printing of even more objects
- Construction speed independent of the number of elements to be produced
- Large expandable range of materials and indications
- Unique cartridge system:
  - material change in seconds;
  - low material consumption;
  - minimal material ageing
  - simple material handling and storage - direct in the cartridge, without decanting
- Network capability of the device permits rapid BEGO Service via remote control

Details about supplementary services, software and further applications are available online at www.bego.com/3d-printing

Product details		
Physical data		
Height	748 mm	
Width	362 mm	
Depth	461 mm	
Weight	44 kg	
Nominal voltage	100–240 VAC, 50/60 Hz	
Rated capacity	100 VA	
Dimensions (L × W × H)	110× approx. 65×85mm	
Resolution	60 µm (± 30 µm)	
Layer	50 to 100 µm	
Building speed	20 to 40 mm/h	
Forms available	**Quantity**	**REF**
Varseo S Partner (incl. scope of delivery)	1	26460
Varseo S Basic (incl. scope of delivery)	1	26455
Scope of delivery	**Quantity**	**REF**
Original Varseo S operating instructions	1	86087
Wooden spatula, not sterile	1	19548
Bubble syringe, sterile	1	19549
Stainless steel spatula	1	19550
Card set, blank	1	19551
Torque screwdriver 1.5 Nm	1	19556
TORX Bit T20×25 mm	1	19557
O Ring 128x3Vi399 / FKM 90	1	19524
Protective resin bottle cap	1	19563
Electricity cable	1	12622
USA mains power cable	1	12554
Test gauge, small	1	19409
Test gauge, large	1	19410
WLAN USB adapter, 150 Mbit/s, high gain	1	20119
Varseo S cartridge, complete with stamp (Varseo S Basic)	1	20008
Adhesion preventive film	1	19778
Special USB stick, calibration file	1	
Accessories	**Quantity**	**REF**
CAMbridge licence dongle	1	19504
Material packages	**Quantity**	**REF**
Material package VarseoWax CAD/Cast (VarseoWax CAD/Cast 1 kg + cartridge incl. stamp + VarseoVest P 6 kg)	1	41053
Material package VarseoWax Tray (VarseoWax Tray 1 kg + cartridge incl. stamp)	1	41054
Material package VarseoWax Surgical Guide (VarseoWax Surgical Guide 1 kg + cartridge incl. stamp)	1	41055
Material package VarseoWax Splint E (VarseoWax Splint E 1 kg + cartridge incl. stamp)	1	41056
Material package VarseoWax Model (VarseoWax Model 1 kg + cartridge incl. stamp)	1	41057
Material package VarseoWax Base (VarseoWax Base 1 kg + cartridge incl. stamp)	1	41058

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Varseo S services		
	Partner package	**Basic package**
Activation (inclusive)	Activation of a material key of your choice and making the associated materials package available	Activation of all the material key provided
MDR* ready (inclusive)	Validated processes from scanning to finishing incl. documentation and material-specific guidelines	Validated processes from scanning to finishing incl. documentation and material-specific guidelines (only for materials authorised by BEGO)
Online access (inclusive)	To all BEGO 3D Academy areas	To selected BEGO 3D Academy areas
Support (inclusive)	• Device installation, commissioning and familiarisation in your laboratory • Professional Hotline Support • Loan device in the event of malfunction within 48 hours (as part of the one year guarantee term)	• Professional Hotline Support
Services (not free)	• Activation of other material keys	• Device installation, commissioning and familiarisation in your laboratory

* Medical Device Regulation

BEGO Otoflash – Flashlight device for rapid and reliable hardening of VarseoWax resins

- BEGO Otoflash has two flashlight bulbs shining from below into the polymerisation chamber and hence makes short VarseoWax hardening times possible
- The wide wavelength field covered ensures very good resin hardening and hence achievement of the print physical characteristics desired
- The protective gas equipment prevents oxygen inhibition, guarantees completely adhesive-free surface hardening and hence efficient reduction of the residual monomer content and biocompatibility
- The device can be used for photopolymerisation of all materials that harden under light at wavelengths of from 360 to 700 nm

Product details		
Physical data		
Height		310 mm
Width		310 mm
Depth		140 mm
Nominal voltage		100, 115, 230 VAC, 50/60 Hz
Power consumption		About 250 watt
Flash frequency		10 flashes a second
Size of the polymerisation space		About 120 × 120 × 50 mm
Spectral distribution		360–700 nm
Weight		About 6 kg
Gas type		Nitrogen N_2, 2.6
Gas pressure		1.0–1.2 bar
Gas flow		About 10 l/min
Scope of delivery	**Quantity**	**REF**
BEGO Otoflash incl. gas connection	1	26465
Accessories	**Quantity**	**REF**
Pressure reducer for the protective gas connection	1	20349

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VarseoWax CAD/Cast – The resin for the 3D printing of CAD/Cast® partial denture frames and press-to-metal templates

- VarseoWax CAD/Cast can be burned out without leaving any residue and thus provides optimal conditions for pore-free, smooth and precise partial dentures
- The resin expansion tailored to the VarseoVest investment material facilitates preheating using the shock heat method and significantly reduces the time required for heating
- The excellent dimensional stability of the plotted objects enables deformation-free investment and thus excellent accuracy of fit of the cast objects
- The printed plastic boasts first-class green strength, so that no light-curing is necessary if frames are processed immediately, which in turn results in unparalleled process time savings
- As a system component of the Varseo 3D print system, VarseoWax CAD/Cast offers outstanding processing reliability – the printing and processing parameters specially developed for the resin ensure smooth production sequences with reproducible results at any time

Product details

Availability				
Colour	yellow opaque			
Wavelenghts	405 nm			
	Contents	**Presentation**	**Qty**	**REF**
• VarseoWax CAD/Cast	1.0 kg	bottle	1	41000

VarseoWax Tray – The resin for the 3D printing of individual impression trays

- VarseoWax Tray is water- and solvent-resistant during processing
- The printed objects can be universally used for all impression materials
- The outstanding dimensional stability and strength enable precise and deformation-free impressions to be taken on patients
- Thanks to the CAD wax-up, retention holes can be conveniently produced in the impression tray in one step – there is no need for additional drilling
- CAM production ensures evenly rounded edges – no time-consuming grinding of the margins necessary
- The smooth surfaces of the printed objects form the basis for an excellent fit
- Tested parameters tailored to the VarseoWax Tray resin ensure the rapid and economic production of impression trays
- The CE mark certifies security, efficiency and permanent monitoring of VarseoWax Tray and stands for excellent cross-batch quality standarts of the product
- Biocpmpatility confirmed by an institute means safety for patients
- VarseoWax Tray satisfies all the requirements for a Class 1* medical device

Product details

Availability				
Colour	blue opaque			
Wavelenghts	405 nm			
	Contents	**Presentation**	**Qty**	**REF**
• VarseoWax Tray	1.0 kg	bottle	1	41013

* Class 1 medical device as defined by Directive 93/42/EEC

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VarseoWax Surgical Guide – The resin for 3D printing of drilling templates and placement aids for implant prosthetics

- VarseoWax Surgical Guide is a resin which is highly resistant to chemicals; the printed objects can be cleaned and disinfected both conveniently and easily
- The Varseo system is compatible with all common implant planning systems which export to STL format – this facilitates simple transfers of the data sets and production of the drilling templates
- The 3D printing parameters are tailored for surgical guides to ensure exact shaping in the area around the drill sleeves and, consequently, precise drill holes as well as optimal accuracy of fit during subsequent insertion in the patient's mouth
- Extremely short fabrication times and low material consumption equate to cost-efficient production in the laboratory
- The CE mark certifies security, efficiency and permanent monitoring of VarseoWax Surgical Guide and stands for excellent cross-batch quality standards of the product
- Biocompatibility confirmed by an independent institute means safety for patients
- VarseoWax Surgical Guide satisfies the requirements for a Class 1* medical device

Product details

Availability

Colour	blue transparent			
Wavelenghts	405 nm			
	Contents	**Presentation**	**Qty**	**REF**
• VarseoWax Surgical Guide	1.0 kg	bottle	1	41012

* Class 1 medical device as defined by Directive 93/42/EEC

VarseoWax Splint E – The resin for 3D printing of occlusal splints

- The resin's excellent flow properties produce a dense surface and high level of impact strength for guaranteed stability and long-term durability in the patient's mouth
- Maximum possible patient safety due to high elongation limit and elasticity
- Smooth print surfaces provide the basis for great accuracy of fit and minimal finishing
- The 3D print parameters specially aligned to splints enable quick and cost-effective production of splints in the laboratory
- The excellent dimensional stability simplifies the processing of printed objects and enables further processing free from deformation
- The high level of transparency is equal to that of thermoforming splints and provides the basis for ideally checking the accuracy of fit
- The CE mark certifies security, efficiency and permanent monitoring of VarseoWax Splint E and stands for excellent cross-batch quality standards of the product
- Biocompatibility confirmed by an independent institute means safety for patients
- VarseoWax Splint E satisfies the requirements for a Class 1* medical device

Expected availability as a class 2 medical device from September 2017

Product details

Availability

Colour	transparent			
Wavelenghts	405 nm			
	Contents	**Presentation**	**Qty**	**REF**
• VarseoWax Splint E	1.0 kg	bottle	1	41050

* Class 1 medical device as defined by Directive 93/42/EEC

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VarseoWax Model – The resin for the 3D printing of dental models

- VarseoWax Model for the 3D printing of implant models, full and partial dental models, models with removable dies, solid or hollow in construction
- The excellent dimensional stability of the plotted models form the ideal basis for precise, smooth and pore-free model surfaces
- VarseoWax Model can be insulated against adhesive wax, is resistant to moisture in order to facilitate problem-free cleaning and accordingly, its handling during processing is comparable to that of a conventional plaster model
- The opaque colour selected allows optimal identification of all model contours and preparation margins on die models, thus offering the ideal basis for highly precise restorations
- The possibility of duplication with silicone or hydrocolloid underlines VarseoWax Model's broad scope of applications
- Solid models are suitable and validated for use as the basis for the further processing of thermoforming foil
- As a system component of the Varseo 3D print system, VarseoWax Model offers outstanding process reliability – the printing and processing parameters specially developed for the resin ensure smooth production sequences with reproducible results at any time

Please note: The construction of digital implant models are in connection with BEGO Semados implant models or universal DIM-analogs possible

Product details

Availability

Colour	yellow-brown			
Wavelenghts	405 nm			
	Contents	**Presentation**	**Qty**	**REF**
• VarseoWax Model	1.0 kg	bottle	1	41010

VarseoWax Base – The resin for 3D printing of full denture bases

- The smooth surfaces of the printed denture bases form offers the basis for an excellent fit
- The outstanding dimensional stability and strength enable precise and deformation-free fit in the patients mouth
- CAM production ensures evenly rounded edges – no timeconsuming grinding of the margins necessary
- Tested parameters tailored to the VarseoWax Base resin ensure the rapid and economic production of full denture bases
- The CE mark certifies security, efficiency and permanent monitoring of VarseoWax Base and stands for excellent cross-batch quality standards of the product
- Biocompatibility confirmed by an independent institute means safety for patients
- VarseoWax Base satisfies the requirements for a Class 2a* medical device

Expected availability from October 2017

Product details

Availability

Colour	pink, pink opaque, dark pink			
Wavelenghts	405 nm			
	Contents	**Presentation**	**Qty**	**REF**
• VarseoWax Base pink	1.0 kg	bottle	1	41001
• VarseoWax Base opaque pink	1.0 kg	bottle	1	41017
• VarseoWax Base dark pink	1.0 kg	bottle	1	41018

* Class 2a medical device as defined by Directive 93/42/EEC

VarseoVest P – Phosphate-bonded, shock heat precision investment material especially for casting 3D-printed partial denture frames

- The VarseoVest investment has been specially developed for CAM constructions produced by means of 3D printing and offers an excellent fit and smooth cast objects every single time
- The outstanding flow properties ensure easy investments even on slender partial denture clasps and margins; the long working time of approx. 6 minutes enables fatigue-free processing of the investment material
- The mould is inserted directly into the furnace, which is pre-heated to 800–950°C, only 20 minutes after investing, which represents a considerable reduction in the duration of the heating process
- The impressive strength of the investment material ensures that the moulds do not crack or tear as a result of the plastic expanding and also guarantees reliable further processing
- VarseoVest investment offers a high degree of edge strength yet still permits easy deflasking – for economic use of the blasting material
- The unambiguous and clear expansion control with the special mixing liquid BegoSol® HE ensures reproducible fit results
- Simple application of VarseoVest investment in combination with the VarseoWax CAD/Cast® resins thanks to processing techniques comparable to common investment materials

Product details

Physical data			**VarseoVest P**	
Mixing liquid			BegoSol® HE	
Working time at 20 °C			approx. 6 Min.	
Shelf life in unopened bag			24 months	
Key material values according to DIN EN ISO 15912				
Beginning of setting (Vicat time)			approx. 12 Min.	
Compressive strength [MPa]			approx. 5 MPa	
Linear thermal expansion [%]			1.0 %	
Flowability [mm]			137 mm	
Availabilty	**Contents**	**Presentation**	**Qty**	**REF**
VarseoVest P, 36 × 500 g bag	18 kg	carton	1	54873
VarseoVest P, 60 × 300 g bag	18 kg	carton	1	54874
VarseoVest P, 20 × 300 g bag	6 kg	carton	1	54875
The packages do not contain any mixing liquid.				
Accessories	**Contents**	**Presentation**	**Qty**	**REF**
BegoSol® HE mixing liquid*	1 litre	bottle	1	51095
BegoSol® HE mixing liquid*	5 litre	canister	1	51096
Silicone mould former	1	set	1	54877
*BegoSol® HE is sensitive to freezing				

DIN EN ISO 15912

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PRECIOUS-METAL ALLOYS

BEGO has the right alloy for every indication. All ceramics and composites used in the dental laboratory are suitable as veneering materials.
A full list of our precious metal alloys is available as a download from www.bego.com/download-center.

Bio PontoStar® XL

- High-gold alloy with a high gold and platinum content – for optimal processing
- Rich yellow colour – for restorations which are at once aesthetic and high-quality
- Contains no copper or palladium – extremely corrosion-resistant
- Light-coloured oxide – for greater reliability in aesthetic ceramic veneering
- Biocompatible and corrosion-resistant

Product details	
Composition in % by mass	
Au 86.0 · Pt 11.5 · Zn 1.6 · Fe · In · Rh	
Alloy characteristics	**Standard values**
Type (ISO 22674)	4
Density	18.8 g/cm³
Preheating temperature	850 °C
Solidus, liquidus temperature	1045, 1100 °C
Casting temperature	1270 °C
Young's modulus	100 GPa
Proof strength ($R_{p0.2}$)	500 MPa
Ultimate strength (Rm)	540 MPa
Elongation after fracture (A_5)	7 %
Vickers hardness	215 HV5
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	14.2
Availability	**REF**
Bio PontoStar® XL	61140
Accessories	
Laser welding wire Bio PontoStar®-XL wire Ø 0.35 mm	61167
PontoStar®-G solder before firing	61045
BEGO-GOLD solder I after firing	61017
Minoxyd Flux	52530

Conforms with ISO 9693-1 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

PontoLloyd® G

- Extra-hard, high-gold universal alloy – suitable for all indications!
- Yellow colour – for aesthetic and high-quality restorations
- With indium – for reliable ceramic veneering
- Copper-free – also suitable for sensitive patients
- Biocompatible and corrosion-resistant

Product details	
Composition in % by mass	
Au 84.4 · Pt 8.0 · Pd 5.0 · In 2.5 · Ta	
Alloy characteristics	**Standard values**
Typ (ISO 22674)	4
Density	18.1 g/cm³
Preheating temperature	850 °C
Solidus, liquidus temperature	1100, 1230 °C
Casting temperature	1370 °C
Young's modulus	100 GPa
Proof strength ($R_{p0.2}$)	470 MPa
Ultimate strength (Rm)	625 MPa
Elongation after fracture (A_5)	6 %
Vickers hardness	200 HV5
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	14.1
Availability	**REF**
PontoLloyd G	61106
Accessories	
Laser welding wire PontoStar® G wire Ø 0.35 mm	61150
PontoStar® G solder before firing	61045
BEGO-GOLD solder I after firing	61017
Minoxyd Flux	52530

Conforms with ISO 9693-1 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

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Pontonorm

- Noble extra-hard universal alloy for ceramic veneering
- Yellow colour – for aesthetic and high-quality restorations
- Wide range of indications – to be used by all common low-melting and high-expendable ceramics or composites
- Biocompatible and corrosion-resistant

Product details	
Composition in % by mass	
Au 73.8 · Ag 9.2 · Pt 9.0 · Cu 4.4 · Zn 2.0 · In 1.5 · Ir	
Alloy characteristics	**Standard values**
Type (ISO 22674)	4
Density	16.7 g/cm³
Preheating temperature	700 °C
Solidus, liquidus temperature	900, 990 °C
Casting temperature	1150 °C
Young's modulus	105 GPa
Proof strength ($R_{p0.2}$)	480 MPa
Ultimate strength (Rm)	695 MPa
Elongation after fracture (A_5)	12 %
Vickers hardness	200 HV5
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	16.5
Availability	**REF**
Pontonorm	61126
Accessories	
Laser welding wire Pontonorm wire Ø 0.35 mm	61172
PontoRex® solder before firing	61038
PontoRex® solder after firing	61039
Minoxyd Flux	52530

Conforms with ISO 9693-1 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

BegoPal® 300

- Wide range of indications – from crowns to suprastructures
- Copper-free – ideal for sensitive patients
- Light-coloured oxide – greater reliability in the colouring of the ceramic
- Alloyed with gold and silver – excellent melting, flow and soldering properties
- Biocompatible and corrosion-resistant

Product details	
Composition in % by mass	
Pd 75.2 · In 6.3 · Ag 6.2 · Au 6.0 · Ga 6.0 · Re · Ru	
Alloy characteristics	**Standard values**
Type (ISO 22674)	4
Density	11.0 g/cm³
Preheating temperature	850 °C
Solidus, liquidus temperature	1175, 1320 °C
Casting temperature	1390 °C
Young's modulus	135 GPa
Proof strength ($R_{p0.2}$)	520 MPa
Ultimate strength (Rm)	910 MPa
Elongation after fracture (A_5)	28 %
Vickers hardness	240 HV5
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	13.8
Availability	**REF**
BegoPal® 300	61105
Accessories	
Laser welding wire BegoPal® 300 wire Ø 0.35 mm	61165
BegoStar® solder before firing	61081
BegoStar® solder after firing	61017
Minoxyd Flux	52530

Conforms with ISO 9693-1 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

BEGO Gold

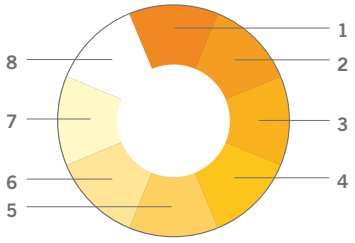
Alloy	Bio-certificate	Standards ISO	REF	Type according to ISO 22674	BEGO colour code no.	Composition in % by mass (x = < 1%)								Other elements (< 1%)	Density g/cm³	Vickers hardness HV 5
						Au	Pt	Pd	Ag	Cu	Sn	Zn	In			
Alloys for conventional ceramics																
Bio PontoStar® XL	✓	9693-1 + 22674	61140	4	5	86.0	11.5	–	–	–	–	1.6	×	Fe · Rh	18.8	215
Bio PontoStar®	✓	9693-1 + 22674	61104	4	5	86.7	10.7	–	–	–	–	1.5	×	Mn · Rh · Ta	18.8	225
PontoStar® G	✓	9693-1 + 22674	61046	4	4	85.5	11.4	–	–	–	–	–	2.3	Fe · Rh	18.0	175
PontoStar® H		9693-1 + 22674	61030	4	7	77.6	18.8	–	×	–	–	2.2	–	Fe · Ir	18.5	220
PontoLloyd® G	✓	9693-1 + 22674	61106	4	6	84.4	8.0	5.0	–	–	–	–	2.5	Ta	18.1	200
PontoLloyd® P	✓	9693-1 + 22674	61087	4	8	77.5	9.9	8.9	1.0	×	×	–	1.4	Fe · Ir	17.9	205
PontoLloyd® L		9693-1 + 22674	61100	4	8	75.0	–	17.9	3.0	–	1.5	–	2.5	Re · Ru	16.3	205
BegoCer® G	✓	9693-1 + 22674	61097	4	8	51.5	–	38.4	–	–	–	–	8.7	Ga 1.3 · Ru	14.3	220
BegoStar®	✓	9693-1 + 22674	61080	4	8	54.0	–	26.5	15.5	–	2.4	–	1.4	Re · Ru	13.8	225
BegoStar® ECO	✓	9693-1 + 22674	61121	4	8	15.0	–	51.9	23.0	–	4.0	–	6.0	Ru	11.2	215
BegoPal® 300	✓	9693-1 + 22674	61105	4	8	6.0	–	75.2	6.2	–	–	–	6.3	Ga 6.0 · Re · Ru	11.0	240
BegoPal® S	✓	9693-1 + 22674	61086	4	8	–	–	57.5	31.5	–	9.0	–	1,9	Re · Ru	11.1	220
Alloys for high-expanding ceramics (low-fusing dental ceramics)																
Bio PlatinLloyd®	✓	9693-1 + 22674	61125	4	4	74.9	7.8	–	14.9	–	–	2.2	–	Mg · Mn · Rh	16.3	205
Pontonorm	✓	9693-1 + 22674	61126	4	3	73.8	9.0	–	9.2	4.4	–	2.0	1.5	Ir	16.7	200
PontoRex® G	✓	9693-1 + 22674	61016	4	4	70.0	9.4	–	13.2	3.0	–	2.0	1.9	Ir · Rh	16.2	200
PlatinLloyd® KF	✓	9693-1 + 22674	61025	4	4	72.8	2.0	5.7	16.1	–	–	3.0	–	Ir · Mn · Rh	15.6	250
BegoLloyd® LFC	✓	9693-1 + 22674	61116	4	5	62.9	3.0	5.7	25.0	–	–	2.2	1.2	Ru	14.6	225
AuroLloyd® KF	✓	9693-1 + 22674	61052	4	6	55.0	–	10.0	29.3	–	1.0	1.2	3.5	Re · Ru	13.9	200
ECO d'OR	✓	9693-1 + 22674	61112	4	6	38.1	–	13.0	40.5	–	–	–	8.0	Mn · Ta	13.1	215
BegoStar® LFC	✓	9693-1 + 22674	61107	4	8	×	–	35.0	59.6	–	1.0	4.0	–	Ru · Zr	10.8	200
Alloys for crowns and bridges (only suitable for veneering with composite)																
InLloyd® 100	✓	22674	61120	2	2	78.1	3.9	–	15.5	–	–	2.4	–	Ir	16.5	150
PlatinLloyd® 100	✓	22674	61020	4	3	72.0	3.5	–	13.7	9.8	–	x	–	Ir	15.5	220
PlatinLloyd® M		22674	61009	4	4	70.0	5.0	1.0	11.7	10.0	–	1.9	×	Re	15.7	270
BegoLloyd® M		22674	61036	4	4	65.0	×	3.1	19.0	10.0	–	2.0	×	Ir	14.7	235
AuroLloyd® M		22674	61054	4	5	54.0	1.0	5.0	29.0	8.0	–	1.0	1.9	Ir	13.5	250
Midigold		22674	61082	4	5	49.5	–	3.4	35.0	10.0	–	–	2.0	Ru	13.0	235

Types according to ISO 22674
Type 2: Intended for fixed, single-tooth restorations, e.g. crowns or inlays, where the number of surfaces is not limited.
Type 3: Intended for fixed, multi-unit restorations, e.g. bridges, telescopic and conical crowns, posts.
Type 4: Intended for restorations with thin cross-sections which are exposed to very high loads, e.g. removable partial dentures, clasps, veneered crowns, bridges with long spans or small cross-sections, bars, fixtures, implant-supported superstructures.

BEGO GOLD alloys and solders are medical divices in accordance with Regulation 93/42 EEC. According to the Annex IX, the products are classified in Class IIa.

Proof strength (Rp0.2) MPa	Elongation after fracture (A_5) %	Young's modulus GPa	Solidus, liquidus temperature °C	Casting temperature approx. °C	Preheating temperature °C	CTE 25–500 °C 10^{-6} K^{-1}	Oxide firing °C	Oxide firing min.	Oxide firing with vakuum	Wire for laser welding	Solders (REF) ● Before firing ■ After firing
500	7	100	1045, 1100	1270	850	14.2	900	5	✓	Bio PontoStar® XL wire	● PontoStar® G solder (61045) ■ BEGO-Gold solder I (61017)
550	8	100	1040, 1150	1270	850	14.2	950	10	–	Bio PontoStar® wire	● PontoStar® G solder (61045) ■ BEGO-Gold solder I (61017)
430	9	92	1055, 1140	1320	850	14.4	950	1	–	PontoStar® G wire	● PontoStar® G solder (61045) ■ BEGO-Gold solder I (61017)
520	6	115	1080, 1180	1320	850	13.8	950	10	–	PontoStar® G wire	● PontoStar® G solder (61045) ■ BEGO-Gold solder I (61017)
470	6	100	1100, 1230	1370	850	14.1	960	10	–	PontoStar® G wire	● PontoStar® G solder (61045) ■ BEGO-Gold solder I (61017)
490	5	110	1145, 1215	1380	850	13.8	960	10	–	PontoLloyd® P wire	● PontoLloyd® solder (61074) ■ BEGO-Gold solder I (61017)
530	8	110	1150, 1240	1430	850	14.1	960	10	–	PontoLloyd® P wire	● PontoLloyd® solder (61074) ■ BEGO-Gold solder I (61017)
520	16	125	1155, 1310	1450	850	13.7	960	2–3	–	BegoCer® G wire	● BegoStar® solder (61081) ■ BEGO-Gold solder I (61017)
510	15	113	1230, 1280	1420	850	14.0	960	10	–	BegoCer® G wire	● BegoStar® solder (61081) ■ BEGO-Gold solder I (61017)
440	22	135	1250, 1310	1430	850	14.2	960	2–3	–	BegoStar® ECO wire	● BegoStar® solder (61081) ■ BEGO-Gold solder I (61017)
520	28	135	1175, 1320	1390	850	13.8	960	2–3	–	BegoPal® 300 wire	● BegoStar® solder (61081) ■ BEGO-Gold solder I (61017)
480	7	118	1210, 1290	1400	850	14.4	960	10	–	BegoPal® 300 wire	● BegoStar® solder (61081) ■ BEGO-Gold solder I (61017)
490	6	120	990, 1065	1250	700	16.0	780	10	–	Bio PlatinLloyd® wire	● Bio PlatinLloyd®-Lot (61108) ■ Bio PlatinLloyd®-Lot (61109)
480	12	105	900, 990	1150	700	16.5	780	5	✓	Pontonorm wire	● PontoRex®-Lot (61038) ■ PontoRex®-Lot (61039)
440	11	100	910, 995	1150	700	16.1	800	10	–	PontoRex® G wire	● PontoRex®-Lot (61038) ■ PontoRex®-Lot (61039)
580	6	120	980, 1070	1200	750	16.2	800	10	–	PlatinLloyd® KF wire	● PontoRex®-Lot (61038) ■ PontoRex®-Lot (61039)
575	13	105	985, 1060	1250	700	16.4	800	5	✓	PlatinLloyd® M wire	● Bio PlatinLloyd®-Lot (61108) ■ Bio PlatinLloyd®-Lot (61109)
480	7	106	950, 1060	1230	700	17.1	800	10	–	AuroLloyd® KF wire	● PontoRex®-Lot (61038) ■ PontoRex®-Lot (61039)
500	7	114	975, 1030	1200	700	17.0	800	5	–	ECO d'OR wire	● Bio PlatinLloyd®-Lot (61108) ■ Bio PlatinLloyd®-Lot (61109)
400	12	113	1080, 1150	1300	700	16.6	780	10	–	ECO d'OR wire	● PontoRex®-Lot (61038) ■ PontoRex®-Lot (61039)
245	12	90	935, 1005	1200	700	–	–	–	–	InLloyd® 100 wire	BEGO-Gold-Lot I (61017) BEGO-Gold-Lot II (61043)
500	15	95	900, 940	1050	700	–	–	–	–	PlatinLloyd® 100 wire	BEGO-Gold-Lot I (61017) BEGO-Gold-Lot II (61043)
650	11	98	880, 940	1020	700	–	–	–	–	PlatinLloyd® M wire	BEGO-Gold-Lot I (61017) BEGO-Gold-Lot II (61043)
560	23	102	860, 940	1050	700	–	–	–	–	PlatinLloyd® M wire	BEGO-Gold-Lot I (61017) BEGO-Gold-Lot II (61043)
455	6	107	860, 920	1100	700	–	–	–	–	PlatinLloyd® M wire	BEGO-Gold-Lot I (61017) BEGO-Gold-Lot II (61043)
620	5	93	830, 920	1030	700	–	–	–	–	ECO d'OR wire	BEGO-Gold-Lot I (61017) BEGO-Gold-Lot II (61043)

The specified data are standard. Subject to change.



The BEGO Colour Code
The areas of colours within the characteristic fields approximately correspond to the intensity of the alloy colours.

ECO d'OR

- Extra-hard universal alloy with reduced gold content – suitable for all indications
- Also suitable for veneering with LFC materials – strong bond even when subjected to multiple firing
- Biocompatible and corrosion-resistant

Product details	
Composition in % by mass	
Ag 40.5 · Au 38.1 · Pd 13.0 · In 8.0 · Mn · Ta	
Alloy characteristics	**Standard values**
Type (ISO 22674)	4
Density	13.1 g/cm³
Preheating temperature	700 °C
Solidus, liquidus temperature	975, 1030 °C
Casting temperature	1200 °C
Young's modulus	114 GPa
Proof strength ($R_{p0.2}$)	500 MPa
Ultimate strength (Rm)	710 MPa
Elongation after fracture (A_5)	7 %
Vickers hardness	215 HV5
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	17.0
Availability	**REF**
ECO d'Or	61112
Accessories	
Laser welding wire ECO d'Or wire Ø 0.35 mm	61170
Bio PlatinLloyd® solder before firing	61108
Bio PlatinLloyd® solder after firing	61109
Minoxyd Flux	52530

Conforms with ISO 9693-1 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

BegoPal® S

- Suitable for veneering with composites and conventional ceramics
- Copper-free – ideal for sensitive patients
- Light-coloured oxide – greater reliability in the colouration of the ceramic
- Biocompatible and corrosion-resistant

Product details	
Composition in % by mass	
Pd 57.5 · Ag 31.5 · Sn 9.0 · In 1.9 · Re · Ru	
Alloy characteristics	**Standard values**
Type (ISO 22674)	4
Density	11.1 g/cm³
Preheating temperature	850 °C
Solidus, liquidus temperature	1210, 1290 °C
Casting temperature	1400 °C
Young's modulus	118 GPa
Proof strength ($R_{p0.2}$)	480 MPa
Ultimate strength (Rm)	900 MPa
Elongation after fracture (A_5)	7 %
Vickers hardness	220 HV5
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	14.4
Availability	**REF**
BegoPal® S	61086
Accessories	
Laser welding wire BegoPal® 300 wire Ø 0.35 mm	61165
BegoStar® solder before firing	61081
BEGO-Gold® solder after firing	61017
Minoxyd Flux	52530

Conforms with ISO 9693-1 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

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WORK PREPARATION

Proven materials and techniques in work preparation provide the basis for successful, accurate fabrication of a restoration.

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BegoStone plus – Super-hard plaster

- Type 4 high-quality, super-hard plaster which has been tried and tested over many years for building up models for the crown and bridge, inlay, partial denture and CAD/CAM techniques
- Optimal accuracy of detail with all standard impression materials demonstrates the extraordinary versatility of the product
- The thixotropic properties of BegoStone allow an immediate build-up
- BegoStone exhibits outstanding flow properties with only gentle vibration, making it easy to ensure that all parts of the impression are filled without any bubbles
- An ideal working time of approx. 5 minutes enables fatigue-free working
- The colour, ivory 35, guarantees that all fine details and preparation margins can be clearly captured and recognised in a scan
- Very smooth model surfaces and high abrasion resistance combined with ideal expansion values (0.09%, linear) provide an optimal basis for extremely precise restorations
- Extremely high bending tensile strength ensures optimal resistance against teeth and stumps breaking off
- Controlled batch-to-batch consistency means that BegoStone plus facilitates precise results which can be reproduced at any time

Product details

Physical data				
Colour		ivory 35		
Soaking time		15 seconds		
Processing time at 20 °C		approx. 5 minutes		
Setting time (Vicat test)		approx. 10 minutes		
Compressive strength after 1 hour [MPa]		60		
Bending tensile strength (DIN) after 24 hours [MPa]		12		
Setting expansion [%]		0.09		
Hardening time		approx. 30 minutes		
Hardness after 1 hour [MPa]		approx. 220		
Availability	**Contents**	**Presentation**	**Qty**	**REF**
BegoStone plus	5 kg	tub	1	54812
BegoStone plus	12 kg	tub	1	54811

A detailed brochure can be found at www.bego.com/download-center.

Ney measuring set

- The measuring instruments are used for model analysis, measuring undercuts and marking the equator in the partial denture technique

Product details

Scope of delivery	Presentation	Qty	REF
Set of tools, shaft Ø 3 mm; 1 set consisting of undercut measuring instruments:			22160
1 0.25 mm	piece	1	22145
2 0.50 mm	piece	1	22146
3 0.75 mm	piece	1	22147
4 Locating pin	piece	1	22148
5 Wax scraper	piece	1	22149
6 Refill holder	piece	1	22163
Graphite refills (10 pieces)	pack	1	22150

Model base former

- Ensures clean, smooth model base without grinding
- Two sizes are available for both the upper and lower jaw

Product details

Availability	Contents	Dimensions W × H × D (mm)	Presentation	Qty	REF
U1 (Lower jaw small)	5 pieces	80 × 15 × 57	set	1	52641
U2 (Lower jaw large)	5 pieces	90 × 15 × 66	set	1	52642
O1 (Upper jaw small)	5 pieces	80 × 15 × 57	set	1	52661
O2 (Upper jaw large)	5 pieces	88 × 15 × 64	set	1	52671
sorted (U1, U2, O1, O2 for each piece)	4 pieces	see above	pack	1	52630

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DUPLICATING AND HARDENING

The duplicate model is an important step in achieving an accurate fit.
Therefore BEGO offers an optimised and practical system: gels and silicones with high impression-taking accuracy, tried and tested duplicating flasks and perfect equipment for their handling.

Gelovit 200 – Robust duplicating unit, reliable, consistent results

- The programmable brushless motor offers greater reliability than conventional motors for a high dimension of durability
- Intelligent programming emphasises the unit's reliability and long service life
- Sophisticated preparation concept with intelligent temperature control effectively prevents lumps forming in the hydrocolloid and guarantees the fastest possible preparation without scorching
- The special heating strategy prevents residue deposits and nozzle blockages whilst maintaining homogeneity
- A third temperature level minimises the heat shrinkage of the hydrocolloid and ensures an optimal fit
- The time at which the hydrocolloid is required to be ready can be easily pre-programmed for optimum processing
- The number of required melting cycles can be entered individually. This ensures consistent quality of the duplicate models
- The clearly laid out display provides information on all parameters and gives quick and easy access to all important functions

Product details

Technical data				
Height	565 mm			
Width	310 mm			
Depth	355 mm			
Rated voltage	230 VAC, 50/60 Hz			
Special voltage	100–240 VAC, 50/60 Hz			
Power at rated voltage 230 V	900 VA			
Capacity	3–6 kg			
Weight	21 kg			
Availability		**Presentation**	**Qty**	**REF**
Gelovit 200, 230 VAC, 50/60 Hz		piece	1	26330
Accessories	**Contents**	**Presentation**	**Qty**	**REF**
WiroGel® M duplicating gel for plaster, investment material and acrylic casting technique	6 kg	tub	1	54351
Castogel® duplicating gel for investment material and acrylic casting technique	6 kg	tub	1	52052
Wirodouble® duplicating gel for investment material	6 kg	tub	1	52050
Combi duplicating flask, acrylic		piece	1	52090

A detailed brochure can be found at www.bego.com/download-center.

Complementary product:
The appropriate gel is on the next page!

Duplicating gel

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WiroGel® M – Environmentally friendly duplicating gel based on agar-agar hydrocolloid for producing models using investment material, plaster and the acrylic casting technique

- For universal use: For all phosphate-bonded investment materials and type 4 plasters as well as the acrylic casting technique
- Highly accurate impression-taking; smooth model surfaces guarantee reliability in use and enable work results which meet the highest demands in terms of precision
- 15 melting cycles mean a very good cost-benefit ratio – suitable for melting in a microwave without compromising quality or precision
- Duplicating with WiroGel® M is more than five times less expensive than with silicone, taking into account the costs for the duplicating unit
- Colour geared to contrast optimisation, thus ensuring optimal process reliability

Product details

Availability	Contents	Presentation	Qty	REF
WiroGel® M	6 kg	tub	1	54351
WiroGel® M	10 kg	tub	1	54354
Accessories		**Presentation**	**Qty**	**REF**
Combi duplicating flask		piece	1	52090

A detailed brochure can be found at www.bego.com/download-center.

Com-plementary products

Wirovest® or WiroFast

Wirovest® or WiroFast
Optimally coordinated system components make for simple handling and maximum user safety (partial denture investment materials on pages 41 and 40)

WiroGel® C – Reversible natural duplicating gel based on agar-agar hydrocolloid for producing models using investment material, plaster and the acrylic casting technique

- For universal use: For all phosphate-bonded investment materials and type 4 plasters, as well as a wide range of applications in the acrylic casting technique
- Shortened solidification times thanks to cooling in the fridge or cold water bath
- Highly accurate impression-taking and smooth model surfaces guarantee reliability in use and enable work results which meet the highest demands in terms of precision
- Natural hydrocolloid for excellent process reliability, particularly with white and light plasters
- Up to 12 melting cycles ensure very good value for money without compromising quality and precision
- WiroGel® C is suitable for melting in the microwave
- Naturally biodegradable

Product details

Availability	Contents	Presentation	Qty	REF
WiroGel® C	6 kg	tub	1	54870
WiroGel® C	10 kg	tub	1	54871
Accessories	**Contents**	**Presentation**	**Qty**	**REF**
Combination duplicating flask		set	1	52090

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Castogel® and Castogel® mint – Reversible special duplicating hydrocolloid based on agar-agar

- Special duplicating hydrocolloid for sophisticated partial dentures, combination work and the acrylic casting technique
- User-friendly thanks to its high level of impression-taking accuracy, even with the finest of details, and tear-resistant due to its outstanding elasticity. This offers you the necessary reliability and precision in use
- Castogel® mint with additional fresh mint fragrance
- Economical - can be reused up to 9–10 melting cycles
- Ecological - completely biodegradable

Product details

Availability	Contents	Presentation	Qty	REF
Castogel®	6 kg	tub	1	52052
Castogel® mint	10 kg	tub	1	52049
Accessories	**Contents**	**Presentation**	**Qty**	**REF**
Combination duplicating flask		set	1	52090

Wirodouble® – Reversible duplicating hydrocolloid based on agar-agar

- Proven duplicating hydrocolloid for phoshate- or silicate-bonded investment models
- Frequent reusability with up to 9–10 melting cycles are guaranteed by a high quality standard which makes it a user-friendly and economical product

Product details

Availability	Contents	Presentation	Qty	REF
Wirodouble®	6 kg	tub	1	52050
Accessories	**Contents**	**Presentation**	**Qty**	**REF**
Combination duplicating flask		set	1	52090

Combi duplicating flask for partial denture technique

- The low thermal conductivity of the plastic guarantees stress-free cooling of the duplicating material
- Two wedges integrated in the flask cover prevent rotation and ensure proper placement of the form back in the flask
- The Combi duplicating flasks are designed for use with our mould rings

Product details

Availability	Dimensions B × W × D (mm)	Presentation	Qty	REF
1 Combi duplicating flask with wedge top, base and 2 base formers (2 sizes)	90 × 80 × 80 Fill level 55 mm	piece	1	52090

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Wirosil® Duplicating silicone

- Wirosil® is an addition-cured two-component silicone that reproduces master models extremely accurately due to its excellent dimensional stability
- With economy flask and stabilisation insert it enables work to be carried out easily and reliably without wasting material
- Ideal for duplicating milled areas in combination work. Mixing ratio: 1:1

Product details

Physical data

• Processing time	approx. 5 minutes
• Setting time (22 °C)	30–40 minutes
• Mixing time	30 seconds
• Shore A hardness (1 hr.)	17
• Recovery following deformation	99.7 %
• Contraction (DIN 14356)	0.03 %

Availability	Contents	Presentation	Qty	REF
Basic Wirosil® set: 1 bottle each = 1 kg Wirosil® 1+2, 1 measuring and mixing cup, 1 spatula, 1 duplicating flask, small, 1 duplicating flask, large, 1 spray bottle Aurofilm wetting agent, 1 spray bottle Durofluid model spray, 1 instruction for use		piece	1	52000
Single pack Wirosil® 1 + 2	2 x 1 kg	bottle	1 each	52001
Large pack Wirosil® 1 + 2	2 x 10 kg	canister	1 each	51995

Wirosil®plus Duplicating silicone

- Outstanding dimensional stability for extremely precise duplicate models
- 1:1 silicone for manual processing and use in the metering device
- Wirosil® plus has a setting time of just 10 minutes making it ideal for all dental technology work which demands speed as well as uncompromising precision
- Free-flowing consistency and optimal elastic recovery ensure perfect reproduction of combination work with milled surfaces

Product details

Physical data

• Processing time	3 min 30 s
• Setting time (22 °C)	10–12 minutes
• Mixing time	30 s
• Shore A hardness (1 hr.)	20
• Recovery following deformation	99.8 %
• Contraction (DIN 14356)	0.01 %

Availability	Contents	Presentation	Qty	REF
• Wirosil® plus	2 x 1 kg	bottle	je 1	54854

Accessories

	Contents	Presentation	Qty	REF
Wirosil® mixing set		set	1	52004
Aurofilm wetting agent (spray bottle)	100 ml	piece	1	52019
Wirosil® duplicating flask system		set	1	52083

Complementary product

Wiroplus® S or Wirofine
Optimally matched system components mean clear handling, processing reliability with high-quality expert results (page 39 and 40)

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Wirosil® – Duplicating flask system

- Precise reproduction, saving of material, dimensional stability and easy handling characterise the Wirosil® duplicating flask system
- It consists of:
  - the base that holds the model
  - the sleeve with the optimal shape for upper and lower jaw
  - the stabilisation insert of crucial importance for precision after removal of the master model and
  - three replaceable palate formers that essentially support reproduction accuracy and enable extremely economical silicone consumption through flexible positioning

Product details

Availability	Dimensions B × W × D (mm)	Presentation	Qty	REF
Wirosil® duplicating flask system incl. stabilisation ring with 3 palate formers				
small	90 × 55 × 68	set	1	52072
large	105 × 60 × 78	set	1	52083
Accessories		**Presentation**	**Qty**	**REF**
Stabilisation ring with 3 palate formers:				
for small duplicating flask		piece	1	52079
for large duplicating flask		piece	1	52084
Wirosil Stabilisation ring small		piece	10	54881
Wirosil Stabilisation ring large		piece	10	54882

Durol E – Eco hardening liquid

- The ecological dipping hardener Durol E is solvent-free and therefore completely biologically safe. During drying, hardly any odour develops since there are no solvents present
- Contamination can be easily removed with water
- 25 % saving in time and energy, because a drying temperature of 150 °C is sufficient

Product details

Availability	Contents	Presentation	Qty	REF
Durol E Eco hardening liquid	1 litre	bottle	1	52148

Durol/Durofluid – Hardening liquid

- Cold hardener for investment models
- Durol and Durofluid are used cold and penetrate extremely well into the surface of duplicate models during hardening; the models become hard and smooth
- Durol: the recommended drying temperature for the duplicate model is 250 °C
- Durofluid: to promote the adhesion of wax moulded parts, investment material models duplicated in silicone can be dried at approx. 70 °C–100 °C for approx. 10 minutes. The investment material models are then sprayed with a thin and even layer of Durofluid modelling spray.

Product details

Availability	Contents	Presentation	Qty	REF
Durol dipping hardener	1 litre	bottle	1	52111
Durofluid modelling spray (1 spray bottle)	100 ml	piece	1	52008

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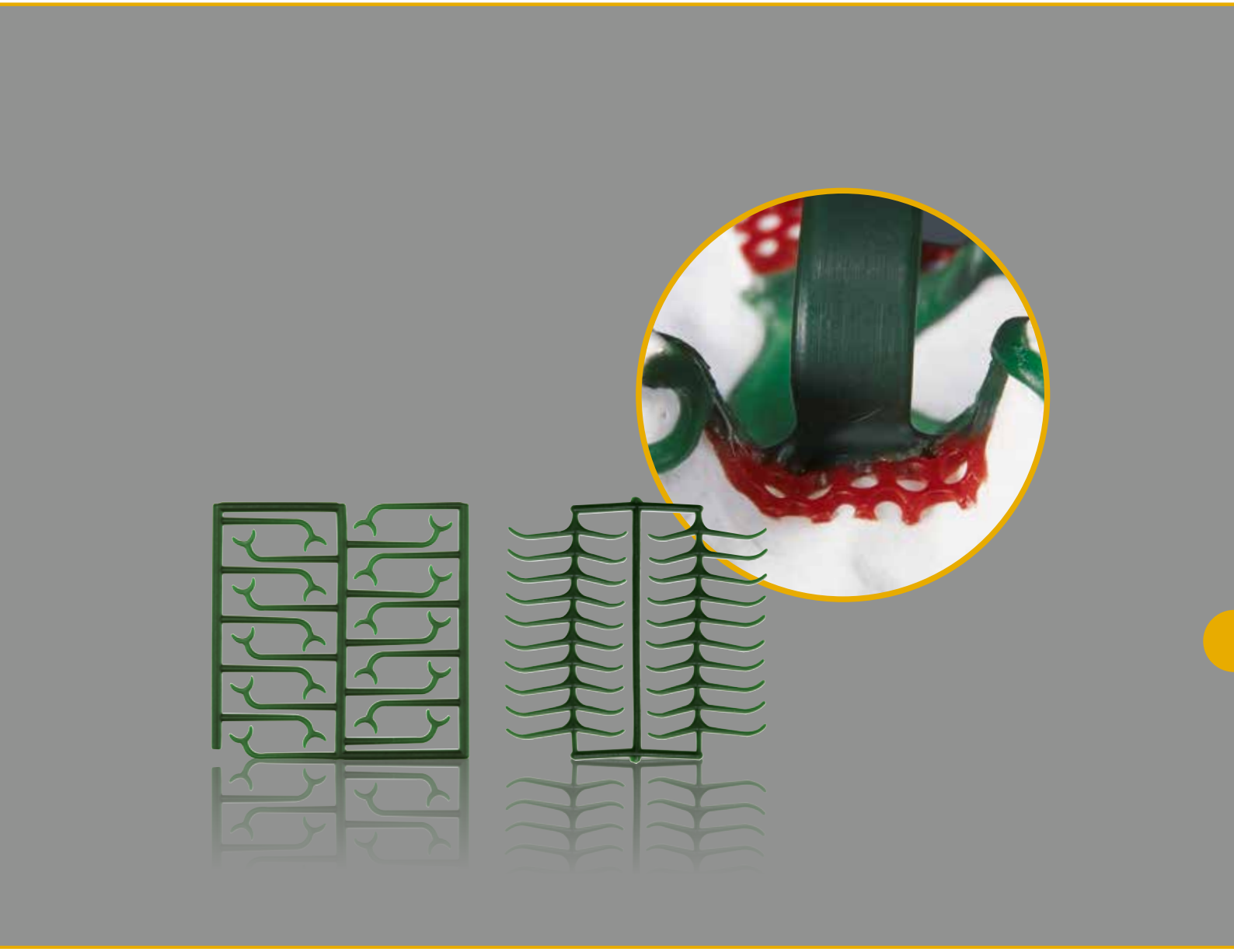

MODELLING

Your wax-up is like the signature of your dental laboratory: carefully selected wax components help you to achieve perfect results. Partially prefabricated profiles make for reliable and fast work.
Our entire BEGO mogelling program is designed for the needs and wishes of professional users. Resi-due-free burning, high adaption ability and secure bonding are taken for granted.

Preparation wax for the partial denture technique

- The preparation wax is exceptionally malleable, allowing it to be adapted to the master model perfectly and with firm adhesion, which saves having to use an additional wax adhesive
- The exemplary shape retention and edge strength of the preparation wax, with a high solidification point of approx. 70 °C, mean that it can be used with duplicating hydrocolloid at working temperatures of 55 °C
- Simple removal from the master model following duplication rounds off the user-friendly working characteristics perfectly

Product details

Availability	Contents	Presentation	Qty	REF
Preparation wax, colour: red, sheet size 17.5 x 8 cm				
0.5 mm	15 sheets	pack	1	40036
0.6 mm	15 sheets	pack	1	40037
0.7 mm	15 sheets	pack	1	40038

Blocking-out wax – Tailored to the particular requirements of the partial denture technique

- This wax was developed for blocking out undercuts, creating clasp steps and relieving critical areas of the model
- This blocking-out wax can be easily scraped and cut, is hard and thus ensures the dimensionally-stable, well-defined reproduction of clasp steps on the investment model
- The boiling-out temperature of approx. 90 °C, the setting temperature of approx. 68 °C and the melting temperature of approx. 80–85 °C guarantee reliability and resilience during duplication, even at high temperatures

Product details

Availability	Contents	Presentation	Qty	REF
Blocking-out wax, colour: pink	70 g	tin	1	40032

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Smooth casting wax

- Simple, crease-free adaptation
- Adheres firmly to the investment model and burns out leaving no residue
- The high transparency of the wax makes for optimal clarity of the construction markings on the master model and saves unnecessary, time-consuming corrections to the wax-up

Product details

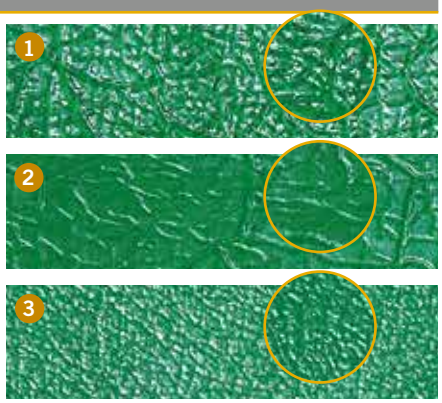
Availability	Contents	Presentation	Qty	REF
Smooth casting wax, colour: green, Sheet size 17.5 × 8 cm				
0.25 mm	15 sheets	pack	1	40091
0.3 mm	15 sheets	pack	1	40092
0.4 mm	15 sheets	pack	1	40093
0.5 mm	15 sheets	pack	1	40094
0.6 mm	15 sheets	pack	1	40095

Stippled casting wax

- Tried and tested wax for modelling the bases of upper partial dentures
- Can be easily adapted and adheres firmly to the investment model with no additional wax adhesive
- The stippled casting wax is available in three different surface textures – from fine to coarse – and allows customisation of the surface shape as required by the practitioner
- The individual stippling of the cast partial denture base facilitates the gripping of food and reduces the foreign body sensation for the patient's tongue

Product details

Availability	Contents	Presentation	Qty
Stippled casting wax, colour: green Sheet size 15 × 7.5 cm	15 sheets	pack	1
	REF	REF	REF
	1 coarse veined	2 medium veined	3 fine veined
0.35 mm	40160	40192	40210
0.4 mm	40170	40193	40220
0.5 mm	40180	40194	40230
0.6 mm	40190	40195	40240



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Wax profiles

- Tried and tested wax profile shapes make for easy, customised wax-up for a wide range of indications in dental technology
- BEGO wax profiles are very easy to mould, do not bend up and can be easily fixed to the investment model
- The wax formula is designed to provide high internal stability and thus offers remarkable protection against inadvertent deformation and constriction during shaping

Product details

Availability	Contents	Presentation	Qty	REF
Wax profiles, colour: green, length 17 cm				
0.8 mm beading wire	30 g	pack	1	40261
1.0 mm beading wire	40 g	pack	1	40263
1.35 mm sprues	50 g	pack	1	40301
1.6 × 4.0 mm bars, lower jaw	75 g	pack	1	40421
2.0 × 4.0 mm bars, lower jaw	85 g	pack	1	40422
1.15 × 1.75 mm clasps, continuous clasps	50 g	pack	1	40441
2.0 × 4.5 mm casting strips, upper jaw (small bases)	90 g	pack	1	40462
2.0 × 6.5 mm casting strips, upper jaw	125 g	pack	1	40461

Flat casting strips – optimally adapted for the casting of maxillary bases

- The creation and dimensioning of the sprues are just as important as a precise wax-up
- In the case of transverse bars, horseshoe-shaped and large maxillary partial denture bases, the flat casting strips have proven particularly successful

Tip:

- Wax profiles 2.0 mm × 6.5 mm for sprues on large maxillary wax-ups
- Wax profiles 2.0 mm × 4.5 mm for delicate maxillary wax-ups

Wax profile assortment

- The BEGO wax profile assortment includes the most widely used profiles for wax-ups, which come in a practical box with compartments
- Medium-hard wax quality

Product details

Availability	Presentation	Qty	REF
Wax profile assortment, colour: green, length 17 cm consisting of: • 0.8 mm beading wire = 6 g • 1.35 mm Wax wire for sprues = 10 g • 2.0 × 4.0 mm bars, lower jaw = 17 g • 2.0 × 6.5 mm casting strips, upper jaw = 2 × 25 g • 1.15 × 1.75 mm clasps, cont. clasps = 10 g	pack	1	40250

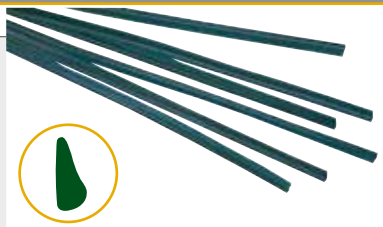
Images and illustrations are examples; colours, symbols, designs and information on the depicted labels and/or packaging may differ from reality.

Anatomical wax bar profiles for lower-jaw partial denture frames

- The rounded upper edge and concave shape facing the tongue plus the anatomical lower-jaw profile make for good patient acceptance.
- Tip: For periodontal prophylaxis, a distance of 4 mm should be maintained between the gingival margin and the upper edge of the bar in the case of lower-jaw partial denture bases

Product details

Availability	Contents	Presentation	Qty	REF
Anatomical wax bar profile, colour: green, length 17 cm	15 pieces	pack	1	40075



Modelling wax starter set for the partial denture technique

- The modelling wax starter set for the partial denture technique includes the most commonly used wax patterns and profiles, ideal for familiarisation and for dental laboratories with a small proportion of partial dentures
- The various profiles cover almost all the indications of the partial denture technique
- The modeling wax start set offers the possibility to get started immediately and to wax-up almost all of the partial denture works in the laboratory
- The selected waxes for the partial denture technique are smooth and still offer a stable wax-up, so they can be easily and safely formed into the desired shape on the investment model
- BEGO wax clasp profiles help saving time during modelling. The wax shapes can be customised by shortening or lengthening

Product details

Availability	Presentation	Qty	REF
Modelling wax starter set Content: • 5 g Tin blocking-out wax • 1 × Sheet preparation wax • 1 × Sheet smooth casting wax • 1 × Sheet stippled casting wax medium veined • 2 × Wax clasp profiles, medium hard • 2 × Upper wax grid retentions • 2 × Wax retentions for lower-jaw • 2 × Anatomical wax bar profiles for lower-jaw • 2 × Casting strips, upper jaw, each dimension 4.5/6.5 mm • 2 × Wax wire for sprues Ø 4 mm • 2 × Beading wax wire Ø 0.8 mm	piece	1	40251

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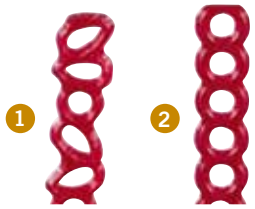
Wax retentions for lower-jaw partial denture frames

- For the secure attachment of plastic saddles to lower partial dentures

Product details

Availability	Contents	Presentation	Qty	REF
Colour: red, length: 17 cm				
1 Wax hole retentions	15 pieces	pack	1	40620
Wax hole retentions (laboratory pack)	150 pieces	pack	1	40630
2 Wax retentions with round holes	15 pieces	pack	1	40051
Wax retentions with round holes (laboratory pack)	150 pieces	pack	1	40052



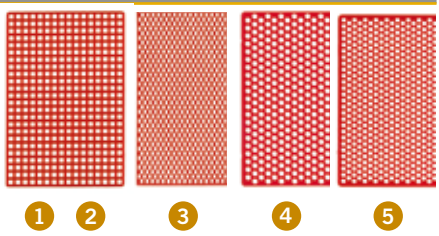
Wax grid retentions for maxillary partial denture frames

1 Wax grid retentions – permit the simple and effective shaping of retentions to total or partial dentures. They guarantee a high level of security in the connection between the resin and the partial denture plate. The large grid retentions facilitate very economical use of material
2 the same as 1 but with a larger plate

3 Wax diagonal grid retentions – for shaping the retentions for partial dentures. This particularly advantageous shape offers a very high degree of security in the connection between the resin and the dentures
4 + 5 Wax grid retentions with holes – can be used as retentions for partial maxillary dentures and as a reinforcement for acrylic full maxillary acrylic dentures

Product details

Availability	Contents	Presentation	Qty	REF
Wax grid retentions, colour: red				
1 60 × 42 mm	25 pieces	pack	1	40060
2 100 × 100 mm	10 pieces	pack	1	40062
3 75 × 150 mm	10 pieces	pack	1	40061
4 for partial upper-jaw dentures, 70 × 70 mm	20 pieces	pack	1	40066
5 for upper-jaw dentures, 70 × 70 mm	20 pieces	pack	1	40039



Wax border strips with retentions

- Time savings when modelling upper-jaw frames with large saddles
- A great advantage is that the border strip can easily be shaped as desired since the size can be varied by trimming the tips of the retentions
- The wax is so supple that it can be shaped easily and reliably as required onto the duplicate model

Product details

Availability	Contents	Presentation	Qty	REF
Wax border strips, colour: red, length 17 cm	25 pieces	pack	1	40025

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Wax clasp profiles for molars and premolars – medium hard, dimensionally stable

- The half tear-drop shaped cross section prevents food residues from getting stuck on molars and premolars and increases the stability over the entire clasp length
- All in all a very slender clasp profile with very good acceptance among patients
- BEGO wax clasp profiles are very easy to mould, do not bend up and can be easily and securely fixed on the investment model
- BEGO wax clasp profiles help saving time during modelling. The wax shapes can be customised by shortening or lengthening

Product details

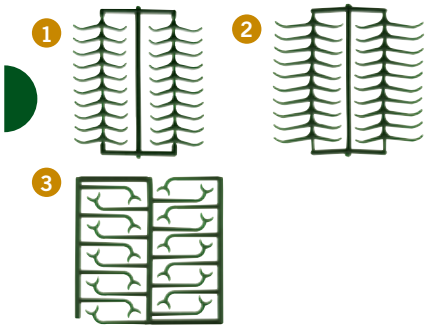
Availability	Contents	Presentation	Qty	REF
Wax clasp profiles, colour: green, (280 clasps)	10 sheets	pack	1	40020

Wax patterns/wax clasp profile

- These preshaped clasp profiles simplify modelling and save time
- The shape of the profiles enables a large number of variations by shortening the wax form

Product details

Availability	Contents	Presentation	Qty	REF
Wax patterns / wax clasp profile colour: green (200 clasps)				
1 for premolars	10 sheets	pack	1	40021
2 for molars	10 sheets	pack	1	40022
3 for Bonyhard clasps	10 sheets	pack	1	40024

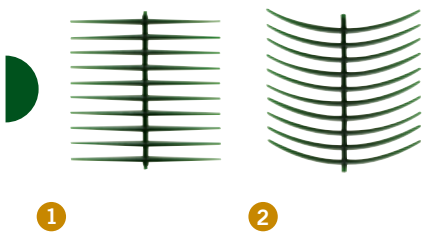


Wax patterns – Ring clasp profile

- Slender standard clasp profiles for molars
- BEGO wax clasp profiles help saving time during modelling. The wax shapes can be customised by shortening or lengthening

Product details

Availability	Contents	Presentation	Qty	REF
Wax patterns ring clasp profile colour: green				
1 straight	10 sheets	pack	1	40029
2 curved	10 sheets	pack	1	40023



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Wax wire for sprues

- BEGO wax wires are very easy to shape, do not bend up, and burn out leaving no residue. This allows casting of stress-free constructions and even pressable ceramics
- The wax formula is designed to provide high internal stability and offers remarkable protection against inadvertent deformation and constriction during bending
- The wax wire enables economizing due to only cutting off the required length
- An opening on the side of the outer packaging allows the wax wire to be fed directly from the pack, thus offering optimal protection against undesirable impurities and deformations

Product details

Availability	Contents	Presentation	Qty	REF
Wax wire, medium-hard, colour: green				
Ø 2.5 mm, approx. 50 m	250 g	roll	1	40085
Ø 3.0 mm, approx. 36 m	250 g	roll	1	40086
Ø 3.5 mm, approx. 28 m	250 g	roll	1	40087
Ø 4.0 mm, approx. 21 m	250 g	roll	1	40088
Ø 5.0 mm, approx. 17 m	250 g	roll	1	40089

Plastic sticks and plastic hollow sticks for distribution channels

- Plastic sticks and hollow plastic sticks are used as a casting reservoir in the sprue technique for casting
- They stabilise the wax-up when using the lift-off technique for crowns and bridges, can be easily shaped over a flame, and burn out leaving no residue
- Hollow sticks are used in metal-ceramic work for non-precious alloys and alloys with a reduced precious metal content, especially in larger multi-unit constructions

Product details

Availability	Contents	Presentation	Qty	REF
Sticks, length 17 cm, Ø 2.5 mm ● (Cross section 1:1)	40 pieces	pack	1	52590
Hollow sticks, length 16.5 cm, Ø 5 mm ◎ (Cross section 1:1)	12 pieces	pack	1	52595

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Rapid-Wax-System – Compatibel with Rapid Ringless System

- Time savings as compared to individual sprue system technique
- Secure position and dimensions for good casting results
- Reliable sprue transitions support optimal flow behaviour of the alloy
- Modelling wax that burns without residue

Product details

Availability	Contents	Presentation	Qty	REF
Direct wax sprues				
Ø 2.0 mm	250 pieces	pack	1	40654
Ø 2.5 mm	250 pieces	pack	1	40655
Ø 3.2 mm	250 pieces	pack	1	40656
Ø 5.0 mm with distributor bar	100 pieces	pack	1	40652
Ø 5.0 mm with distributor bar	250 pieces	pack	1	40653
Wax button for Rapid Ringless System	100 pieces	pack	1	40657

Occlusal wax

- Ideal for efficient and aesthetic modelling of occlusal surfaces. BEGO occlusal wax is available in two pastel shades to facilitate the shaping of occlusal surfaces. The choice of shades is a matter of personal preference. The advantage of light pastel shades, as with all BEGO occlusal waxes, is that they provide high-contrast visualisation of waxed-up occlusal surface contours, thereby great facilitating the implementation of occlusal concepts
- A high degree of hardness is necessary when modelling occlusal surfaces in order to prevent compression at the contact points between maxilla and mandible
- BEGO occlusal wax is very ductile because of its high surface tension. Wax drops form a ball when solidified, enabling even the most delicate occlusal contours to be waxed
- BEGO occlusal waxes do not stain, are not sticky and are very easy to mill. They also meet the highest dental technology standards
- Solidification point approx. 59 °C

Product details

Availability	Contents	Presentation	Qty	REF
Occlusal wax, colour: grey	70 g	tin	1	40114
Occlusal wax, colour: ivory	70 g	tin	1	40118

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Crown wax

- Hard and medium-hard wax compositions in blue, dark blue, grey and dentine ensure optimum waxing of all types of crowns
- Colour preferences and facilitate customised contouring can be easly provided by three shades
- The balanced shrinkage of BEGO crown and bridge waxes is reduced to a minimum by the selective use of high-quality raw materials and rigorous production management
- BEGO crown wax is particularly suitable for waxing up with either an open flame or an electric wax knife
- Both waxes (medium-hard/hard) have ideal carving properties and solidify quickly, enabling them to be applied very quickly. The choice of version depends essentially on the technician's preference, the ambient conditions (room temperature) and the stability required when removing the model or when investing
- BEGO crown waxes can also be used for inlays thanks to their working characteristics
- The solidification point of hard crown wax is approx. 61 °C, medium-hard crown wax approx. 60 °C

Product details

Availability	Contents	Presentation	Qty	REF
hard: colour blue	70 g	tin	1	40111
hard: colour grey	70 g	tin	1	40145
hard: colour dentin	70 g	tin	1	40146
medium-hard: colour dark blue	70 g	tin	1	40115
medium-hard: colour grey	70 g	tin	1	40147
medium-hard: colour dentin	70 g	tin	1	40148

Milling wax

- BEGO milling waxes in green and grey are specially formulated to meet the particular challenges of machine processing
- The ideal hardness of the wax prevents shavings from adhering to the wax-up and clogging up the milling tool, so the view of the milled surface is unobstructed at all times
- The grey milling wax is also formulated with the maximum possible opacity, thus enabling optimal visual assessment of the milled surfaces and contours
- Also ideal for milled bar constructions, e.g. on implants, thanks to its hardness and excellent milling properties
- The solidification temperature of both milling waxes is approx. 62 °C

Tip: Optimal milling speed in the range 2,500–5,000 rpm (depending on the cutting edge geometry and diameter of the cutter)

Product details

Availability	Contents	Presentation	Qty	REF
colour green	70 g	tin	1	40113
colour grey	70 g	tin	1	40119

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Cervical wax

- BEGO cervical wax for cervical edges in eggplant (aubergine) is a tension-free wax on which extremely high demands are placed during modelling
- BEGO cervical wax is completely tension-free after modelling and is therefore highly recommended for details on cervical edges of crowns, precision parts and as undercut wax of inlays
- The cervical wax burns out leaving no residue, making it suitable for the ceramic pressing technique as well
- Thanks to the finely adjusted formulation and careful monitoring of all raw material properties, the cervical wax undergoes only very slight shrinkage after the individual layers have been applied
- BEGO cervical wax has a very low limit of elasticity, so any deformation only has a plastic effect. This allows safe wafer-thin modelling up to the preparation margin
- Solidification temperature approx. 62 °C.

Product details

Availability	Contents	Presentation	Qty	REF
colour eggplant	70 g	tin	1	40112

ScanWax / ScanBlock

- An increasing number of waxed-up restorations are being scanned using the CAD/CAM technique
- The use of highly opaque wax is the most effective way of preventing translucent effects and ensuring optimal data generation
- Precision dental restorations using the CAD/CAM technique can only be fabricated if there is high data density
- The high degree of hardness and opacity of BEGO ScanBlock wax also makes it ideal for waxing up restorations fabricated by the milling technique, and for modelling standard crowns and bridges
- A wax with very high opacity is required for blocking out small cavities on the plaster die in CAD/CAM work
- Translucent effects cause data loss during scanning. ScanBlock ensures data density, even with thin layers of wax
- The solidification temperature of both waxes is 62 °C

Product details

Availability	Contents	Presentation	Qty	REF
ScanWax colour dentine	70 g	tin	1	40151
ScanBlock colour sky-blue	70 g	tin	1	40152

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❶ Dipping wax
❷ Dipping wax – hard-elastic

❶ For the fabrication of wax copings for the crown and bridge technique.
❶ Processing temperature 70–75 °C
❷ Processing temperature of the hard elastic dipping wax approx. 95 °C

❷ The red BEGO hard-elastic dipping wax ensures a distinct, reproducible quality of coping. The viscosity remains constant even if the wax is kept at stand-by temperature for a long time, and thus enables targeted control of the coping thickness. Only contains organic components

Product details

Availability	Contents	Presentation	Qty	REF
❶ Dipping wax colour green	150 g	pack	1	40009
❷ Dipping wax hard-elastic colour red	70 g	tin	1	40155

Adapta deep-drawing system

- Simple and fast deep-drawing of copings
- Reasonably priced system which has been proven over many years with special plastic foils
- A uniform minimum wall thickness ensures a high level of stability in the copings
- Ideal for the double-crown technique; coated with milling wax, the Adapta coping offers a high level of protection against inadvertent milling through
- The thin 0.1 mm spacer foil, which is used as part of the system, frees up the necessary, defined space for the luting material

Product details

Availability	Presentation	Qty	REF
Adapta deep drawing system comprising: 1 Forming tub with Adapta mastic 1 Spare pack Adapta mastic 1 Foil holder 100 Adapta foils, 0.6 mm in foil dispenser 1 Pack, 100 Adapta foils, 0.6 mm 200 Adapta foils, 0.1 mm red, in foil dispenser	set	1	20500
Adapta deep drawing system intro set comprising: 1 Forming tub with Adapta mastic 1 Foil holder 50 Adapta foils, 0.6 mm 50 Spacer foils, 0.1 mm	set	1	20520

Accessories	Contents	Presentation	Qty	REF
Adapta mastic (spare pack)		pack	1	20503
Forming tub with Adapta mastic, 1 Forming tub		piece	1	20504
Adapta foil holder		piece	1	20510
Adapta foil dispenser incl. 100 × 0.6 mm		pack	1	20519
Adapta foil dispenser incl. 200 × 0.1 mm		pack	1	20521
Adapta Spacer foils, 0.1 mm transparent	200 pcs.	pack	1	20517
Adapta Spacer foils 0.1 mm red	200 pcs.	pack	1	20502
Adapta foils 0.6 mm, transparent	100 pcs.	pack	1	20501

Rapidi – Modelling knife

- The Rapidi modelling knife is ideal for cutting, scraping and modelling
- Easy-to-change blade

Product details

Availability	Contents	Presentation	Qty	REF
Rapidi modelling knife		piece	1	52270
Rapidi spare blades	40 pieces	set	1	52280

Isocera – Separating liquid for the crown and bridge technique

- Isocera separates wax from the plaster model very effectively
- Highly suitable for insulating plaster dies when copings are created using the wax dipping technique

Product details

Availability	Contents	Presentation	Qty	REF
Isocera	200 ml	bottle	1	52705

Aurofilm – Wetting agent for investment and releasing the surface tension of silicone duplicating moulds

- Reliable preparation agent for investment in CoCr as well as crown and bridge work
- Aurofilm eliminates the water-repellent effects of the wax pattern ensuring smooth casting surfaces
- Aurofilm is also used successfully in the silicone duplication technique to reduce surface tension

Product details

Availability	Contents	Presentation	Qty	REF
Aurofilm	1 litre	bottle	1	52015
Aurofilm (spray bottle – for refilling)	100 ml	bottle	1	52019

INVESTING

For investing wax-ups, BEGO offers you a whole range of innovative investment materials with a proven track record. Bellavest® SH, Wirovest® and WiroFine are well-known branded products. Mixing liquids specially formulated for the use with the particular type of investment material regulate the expansion reliably and ensure excellent casting results.
Guaranteed 24 month shelf life in the sealed sachet ensures reproducible quality over a long period of time.

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WiroFine – Universal investment material for all indications in the partial denture and combination technique, for gel or silicone duplication

- Can be heated rapidly or conventionally to 1050 °C with ideal expansion values, offers the level of flexibility essential for the modern dental laboratory
- Rapid preheating up to 1000 °C: Insertion temperature = final temperature – means a time saving of 20%–30% in comparison to investment materials which have to be heated from 600 °C
- Ideal flow properties make for reliable, fatigue-free working, since even the finest areas are precisely reproduced
- The precision of the duplicate models, along with high edge strength, makes for an optimal accuracy of fit without time-consuming finishing – ideal for combination work
- Can be used for all shapes of mould and wax-up geometries: System-independent whilst ensuring reliable, efficient processing
- Excellent deflasking properties thanks to the minimal reaction between the investment material and the alloy. The advantage for you: Time saving and economical use of blasting materials (Korox® 110 µm, REF 46044, page 84)
- Free selection of duplicating method
  - Duplication with gel (e.g., Wirogel® M, REF 54351, page 21) results in good model surfaces and cost effectiveness
  - Combination with silicone duplication (e.g., Wirosil®, REF 52000, page 23) facilitates maximum precision and time savings (no hardening necessary)
- Reliable expansion control for excellent fit results thanks to the special liquid BegoSol® K

Product details					
Physical data					
Mixing liquid	BegoSol® K / optional BegoSol® (BegoSol® Anti-freeze optimization up to –10 °C)				
Processing time at 20 °C	approx. 3 minutes 30 seconds				
Shelf life in unopened bag	24 months				
Characteristic values of the material according to DIN EN ISO 15912					
Beginning of solidification (Vicat time)	6 minutes				
Compressive strength [MPa]	11				
Linear thermal expansion [%]	0.8				
Availability		**Contents**	**Presentation**	**Qty**	**REF**
WiroFine, 45 piece 400 g bags		18 kg	carton	1	54345
WiroFine, 15 piece 400 g bags		6 kg	carton	1	54344
WiroFine, 30 piece 200 g bags		6 kg	carton	1	54348
The packs do not contain any mixing liquid.					
Accessories		**Contents**	**Presentation**	**Qty**	**REF**
BegoSol® K mixing liquid*, 1 bottle		1 litre	bottle	1	51120
BegoSol® K mixing liquid*, 1 canister		5 litres	canister	1	51121
BegoSol® mixing liquid**, 1 bottle		1 litre	bottle	1	51090
BegoSol® mixing liquid**, 1 canister		5 litres	canister	1	51091

A detailed brochure can be found at www.bego.com/download-center.
* BegoSol® K is sensitive to freezing · ** BegoSol® (with freeze protection) only suitable for conventional preheating

DIN EN ISO 15912

Com-plementary product!

Wironit® and WIRONIUM® group alloys (60 onwards)
Optimally matched system components mean clear handling, processing reliability with high-quality expert results

Non precious metal alloy

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Wiroplus® S – Precision partial denture investment material for the silicone duplication technique

- Long working time for perfect filling– even with the finest details – makes for reliable processing
- The high edge strength makes for stable, precise modelling
- Very smooth duplicate models and equally smooth cast surfaces ensure impressive accuracy of fit and minimise the finishing required
- Optimal expansion parameters mean a reproducible accuracy of fit plus considerable time savings, especially on milled surfaces
- Very good deflasking properties save time and reduce material consumption
- Reliable expansion control for excellent fit results with BegoSol® mixing liquid

Product details	
Physical data	
Mixing liquid	BegoSol® (Anti-freeze optimization up to –10 °C)
Processing time at 20 °C	approx. 4 minutes
Shelf life in unopened bag	24 months
Characteristic values of the material according to DIN EN ISO 15912	
Beginning of solidification (Vicat time)	5.30 minutes
Compressive strength [MPa]	18
Linear thermal expansion [%]	1.2
Availability	**REF**
1 carton, 18 kg = 45 pieces 400 g bags	50248
1 carton, 6 kg = 15 pieces 200 g bags	54353
The packs do not contain any mixing liquid.	
Accessories	**REF**
BegoSol® mixing liquid, 1 bottle = 1 l	51090
BegoSol® mixing liquid, 1 canister = 5 l	51091

A detailed brochure can be found at www.bego.com/download-center. **DIN EN ISO 15912**

WiroFast – Partial denture investment material suitable for shock heating

- WiroFast is the phosphate-bonded partial denture investment material developed specifically to offer both homogeneous duplication properties in gel and optimal suitability for shock heating
- The mould is inserted directly into the furnace, which is preheated to 900 °C, only 10 minuntes after investing, which represents a considerable reduction in the duration of the heating process
- Optimal duplication properties in gel for very smooth model surfaces – duplication in silicone is also possible
- Excellent flow properties facilitate fatigue-free working – even on slender model parts
- Ideal deflasking properties shorten the deflasking process and reduce the necessary use of blasting materials
- Excellent accuracy of fit and smooth cast objects ensure little effort is expended on adjustments to the cast
- Suitability for both shock heat and conventional heating processes offers the flexibility required for day-to-day work in the laboratory
- As a mixing liquid, BegoSol® ensures economical processing all year round

Product details	
Physical data	
Mixing liquid	BegoSol® (Anti-freeze optimization up to –10 °C)
Processing time at 20 °C	approx. 3 minutes
Characteristic values of the material according to DIN EN ISO 15912	
Beginning of solidification (Vicat time)	approx. 5 minutes
Compressive strength [MPa] (after 2 hours)	approx. 11.9
Linear thermal expansion [%]	approx. 0.8
Flowability [mm]	approx. 141
Availability	**REF**
1 carton, 18 kg = 45 pieces 400 g bags	54834
The packs do not contain any mixing liquid.	
Accessories	**REF**
BegoSol® mixing liquid, 1 bottle = 1 l	51090
BegoSol® mixing liquid, 1 canister = 5 l	51091

DIN EN ISO 15912

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Wirovest® – Standard investment material for the partial denture technique

- Classic phosphate-bonded partial denture investment material with particularly good results in the gel-duplication technique
- High expansion for accuracy of fit and minimal finishing
- Smooth model surfaces facilitate modelling and ensure equally smooth cast surfaces
- When mixed with water (for pouring the cylinder), Wirovest® exhibits a significantly reduced deflasking hardness – this saves time and money
- BegoSol® mixing liquid (frost protected to –10 °C) for assured procurement all year round

Product details

Physical data				
Mixing liquid		BegoSol® (Anti-freeze optimization up to –10 °C)		
Processing time at 20 °C		approx. 3 minutes		
Shelf life in unopened bag		24 months		
Characteristic values of the material according to DIN EN ISO 15912				
Beginning of solidification (Vicat time)		5 minutes		
Compressive strength [MPa]		15 MPa		
Linear thermal expansion [%]		1.15 %		
Availability	**Presentation**	**Contents**	**Qty**	**REF**
Wirovest®, 45 pieces 400 g bags	18 kg	carton	1	51046
Wirovest®, 15 pieces 400 g bags	6 kg	carton	1	51057
The packs do not contain any mixing liquid.				
Accessories	**Presentation**	**Contents**	**Qty**	**REF**
BegoSol® mixing liquid	1 litre	bottle	1	51090
BegoSol® mixing liquid	5 litres	canister	1	51091

DIN EN ISO 15912

Wirovest®plus – Enhanced version of Wirovest® partial denture investment material

- Wirovest®plus offers the benefits of extended working time and universal suitability for duplication within all conceivable areas of indication
- Wirovest®plus is a partial denture investment material which achieves excellent accuracy of fit with a wide range of duplication techniques and working parameters
- Extended working time enables fabrication of several models and moulds in a single working step, thus saving time
- Very smooth surfaces ensure equally smooth casting results
- Precise duplicate models with high edge strength make for easy modelling and exactly fitting castings, without the need for time-consuming finishing
- The good deflasking properties reduce the effort required in deflasking and simplify the cleaning of the cast object
- Qualified for conventional casting of plotted CAD/Cast®-frames
- BegoSol® Mixing liquid for simple expansion control

Product details

Physical data				
Mixing liquid		BegoSol® (Anti-freeze optimization up to –10 °C)		
Processing time at 20 °C		3:15 minutes		
Shelf life in unopened bag		24 months		
Characteristic values of the material according to DIN EN ISO 15912				
Beginning of solidification (Vicat time)		approx. 6 minutes		
Compressive strength [MPa]		15 MPa		
Linear thermal expansion [%]		1.15 %		
Availability	**Presentation**	**Contents**	**Qty**	**REF**
Wirovest®plus; 45 pieces 400 g bags	18 kg	carton	1	54821
The packs do not contain any mixing liquid.				
Accessories	**Presentation**	**Contents**	**Qty**	**REF**
BegoSol® mixing liquid	1 litre	bottle	1	51090
BegoSol® mixing liquid	5 litres	canister	1	51091

DIN EN ISO 15912

Images and illustrations are examples; colours, symbols, designs and information on the depicted labels and/or packaging may differ from reality.

Bellavest® SH – Shock heat – rapidly or conventionally heatable precision casting investment material for crowns and bridges – also those made from pressable or press-to-metal ceramics

- The precision crown and bridge investment material Bellavest® SH offers outstanding versatility and flexibility
- Appointments can be coordinated with ease because Bellavest® SH can either be preheated rapidly, with an insertion temperature of up to 900 °C, or conventionally
- Phosphate-bonded precision casting investment material offers reliable, simple handling along with optimal parameters of use
- Simple to use with the special mixing liquid BegoSol® HE for maximum flexibility in conjunction with just a single liquid
- Precise expansion control and fine, creamy consistency for reliable processing and reproducible quality for a range of indications, from pressable ceramics to telescopic crowns made from non-precious alloys
- Long working time of 5 minutes enables reliable, fatigue-free working
- Extremely smooth cast surfaces make for a good accuracy of fit and time savings due to minimal finishing times
- Cures with a high edge-strength, yet still permits easy deflasking. This implies time savings and economical usage of blasting materials for the user (Korox®, REF 46014, page 84)

Product details

Physical data				
Mixing liquid		BegoSol® HE		
Processing time at 20 °C		approx. 4.5–5 minutes		
Shelf life in unopened bag		24 months		
Characteristic values of the material according to DIN EN ISO 15912				
Beginning of solidification (Vicat time)		approx. 10 minutes		
Compressive strength after 2 hours [MPa]		4.2–5.1		
Linear thermal expansion [%]		0.85		
Availability	**Contents**	**Presentation**	**Qty**	**REF**
Bellavest® SH, 80 × 160 g bags	12.8 kg	carton	1	54252
Bellavest® SH, 30 × 160 g bags	4.8 kg	carton	1	54247
Bellavest® SH, 144 × 90 g bags	12.96 kg	carton	1	54257
Bellavest® SH, 50 × 100 g bags	5 kg	carton	1	70060
The packs do not contain any mixing liquid.				
Accessories	**Contents**	**Presentation**	**Qty**	**REF**
BegoSol® HE Mixing liquid*	1 litre	bottle	1	51095
BegoSol® HE Mixing liquid*	5 litres	canister	1	51096

A detailed brochure can be found at www.bego.com/download-center.
* BegoSol® K is sensitive to freezing

DIN EN ISO 15912

Instructions for using Bellavest® SH:

Universal investment materials are characterised by adjustable expansion levels and resistance to temperature and pressure. Bellavest® SH combines all the requirements for crown and bridge work. This applies equally to precious-metal and non-precious alloys, and also includes pressable ceramics. With BegoSol® HE the desired expansion can be adjusted for every application and indication. This makes Bellavest® SH one of the world's leading crown and bridge investment materials. It is best to use Bellavest® SH and BegoSol® HE at a constant temperature of + 20 °C and processing parameters, such as mixing time and mixing speed, should also be constantly maintained to ensure consistent.

Tips for application

- **The higher the concentration of BegoSol®, the greater the expansion of the investment material**
- **Lowering the concentration reduces the level of expansion**
- **Uniform parameters of use are essential for achieving reproducible casting results**

Images and illustrations are examples; colours, symbols, designs and information on the depicted labels and/or packaging may differ from reality.

Bellavest® DR – Low-dust, shock heat or conventionally heatable precision casting investment material for crown and bridge techniques

- The new precision crown and bridge investment material Bellavest® DR is characterised by its considerably (up to 80 %) reduced dust creation during processing which in turn contributes to a significant reduction of harmful quartz and cristobalite dust in laboratories
- Bellavest® DR can be heated conventionally or using shock heat at an insertion temperature of up to 900 °C and results in a considerable reduction in the duration of the heating process
- Bellavest® DR has been developed based on tried-and-tested Bellavest investment materials and thus offers simple handling along with optimal parameters of use
- Bellavest® DR is a phosphate-bonded precision casting investment material with a long processing time of approx. 5 minutes for reliable and fatigue-free processing
- Precise expansion control and a fine and creamy consistency ensure smooth casting surfaces and consistent reproducible fit results
- Simple to use with the special mixing liquid BegoSol® HE for maximum flexibility in conjunction with just a single liquid
- Bellavest® DR cures with a high edge-strength, yet still permits easy deflasking which means time savings and the economic use of blasting materials for the user

Product details

Physical data				
Mixing liquid		BegoSol® HE		
Working time at 20°C		approx. 5 minuntes		
Shelf life in unopened bag		24 months		
Key material values according to DIN EN ISO 15912				
Beginning of setting (Vicat time)		approx. 10 minutes		
Compressive strength [MPa]		approx. 4 MPa		
Linear thermal expansion [%]		approx. 1.1 %		
Availability	**Contents**	**Presentation**	**Qty**	**REF**
Bellavest® DR, 80 × 160 g bag	12.8 kg	carton	1	54861
Bellavest® DR, 30 × 160 g bag	4.8 kg	carton	1	54862
The packages do not contain any mixing liquid.				
Accessories	**Contents**	**Presentation**	**Qty**	**REF**
BegoSol® HE mixing liquid*	1 litre	bottle	1	51095
BegoSol® HE mixing liquid*	5 litres	canister	1	51096
* BegoSol® HE is sensitive to freezing				

A detailed brochure can be found at www.bego.com/download-center.

DIN EN ISO 15912

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BellaStar XL – The premium investment material for crowns and bridges

- Extremely fine-grained with an excellent accuracy of fit
- Ideal for precious-metal alloys, but also well suited for non-precious alloys in many indications
- BellaStar XL is suitable for rapid or conventional heating and the insertion temperature can be the same as the final temperature
- Thin-to-creamy consistency and optimal flow properties allow problem-free filling of even the finest model details
- Fine-grained raw materials make for extremely smooth and precise cast surfaces
- The casting mould can be fabricated with a fixed ring or without a ring, and the mould sizes can be freely selected
- Outstanding deflasking properties make it easier to remove the investment material This saves time and emphasises the balanced application properties
- BellaStar XL stands for flexibility and trusted, reliable and fatigue-free processing with superb precision
- Reliable expansion control for excellent fit results thanks to BegoSol® K special liquid

Product details

Physical data				
Mixing liquid		BegoSol® K		
Processing time at 20 °C		approx. 3:30 minutes		
Shelf life in unopened bag		24 months		
Characteristic values of the material according to DIN EN ISO 15912				
Beginning of solidification (Vicat time)		7:30 minutes		
Compressive strength [MPa]		5.5		
Linear thermal expansion [%]		1.1		
Availability	**Contents**	**Presentation**	**Qty**	**REF**
BellaStar XL, 80 pieces 160 g bags	12.8 kg	carton	1	54362
BellaStar XL, 30 pieces 160 g bags	4.8 kg	carton	1	54361
The packs do not contain any mixing liquid.				
Accessories	**Contents**	**Presentation**	**Qty**	**REF**
BegoSol® K mixing liquid*	1 litre	bottle	1	51120
BegoSol® K mixing liquid*	5 litres	canister	1	51121

Complementary product

Reliable processing in the system with the top BEGO alloys (page 11)

Formulated for precious metal alloys

BEGO Gold

A detailed brochure can be found at www.bego.com/download-center.
* BegoSol® K is sensitive to freezing

DIN EN ISO 15912

Instructions on the use of BellaStar XL

**For reproducible, reliable results, all working steps must be carried out under constant conditions The working temperature and mixing conditions are of particular importance. It is absolutely essential that the recommended values are adhered to.
We recommend a working temperature of +20 °C for the investment material and the liquid. Parameters of use, such as the mixture intensity, should be kept constant. The type of mixing device and the volume of the mixing bowl are used consistently. Accordingly, either a 250 ml or 1,000 ml mixing bowl should be used consistently to mix 160 g of investment material. Strict adherence to pre-mixing times of at least 15 sec. ensures a consistent quality of the desired expansion parameters.**

Bellavest® T – The precision casting investment material for the crown and bridge technique

- Standard investment material with a proven track record worldwide and high reliability in accuracy of fit and processing
- Bellavest® T is preheated using conventional methods only
- Creamy consistency for smooth castings with accuracy in every detail
- Working time of 5 minutes for reliable, fatigue-free investing
- BegoSol® ensures reliable expansion control; BegoSol® HE – as an alternative – enables higher expansion values
- Bellavest® T has, for many years, been synonymous with clear and simple handling and confidence in optimal results with great economy

Product details	
Physical data	
Mixing liquid	BegoSol® or BegoSol® HE
Processing time at 20 °C	approx. 5 minutes
Shelf life in unopened bag	24 months
Characteristic values of the material according to DIN EN ISO 15912	
Beginning of solidification (Vicat time)	9.5 minutes
Compressive strength [MPa]	10
Linear thermal expansion [%]	1.2
Availability	**REF**
1 carton, 12.8 kg = 80 pieces 160 g bags	54202
1 carton, 4.8 kg = 30 pieces 160 g bags	54201
1 carton, 12.96 kg = 144 pieces 90 g bags	54213
The packs do not contain any mixing liquid.	
Accessories	**REF**
BegoSol® mixing liquid, 1 bottle = 1 l	51090
BegoSol® mixing liquid, 1 canister = 5 l	51091
BegoSol® HE Mixing liquid*, 1 bottle = 1 l	51095
BegoSol® HE Mixing liquid*, 1 canister = 5 l	51096

* Alternatively, for greater expansions: BegoSol® HE mixing liquid
BegoSol® HE is sensitive to freezing

DIN EN ISO 15912

Bellasun – The conventionally heatable crown and bridge investment material

- Bellasun is characterised by reliable processing, precision-fitting results and extra-long working time: at least 3 minutes at an ambient temperature of 30 °C
- Excellent flow properties combined with a long working time make for fatigue-free and reliable investing in all crown and bridge indications
- BegoSol® allows reproducible expansion control and ensures excellent accuracy of fit with precious-metal and non-precious alloys
- Universal use of all shapes and sizes of mould and the low deflasking hardness round off the working characteristics
- Bellasun delivers exemplary quality even at unfavourable working temperatures

Product details	
Physical data	
Mixing liquid	BegoSol® (Anti-freeze optimization up to –10 °C)
Processing time at 20 °C	approx. 7 minutes
Processing time bei 30 °C	approx. 4 minutes
Shelf life in unopened bag	24 months
Characteristic values of the material according to DIN EN ISO 15912	
Beginning of solidification (Vicat time)	13 minutes
Compressive strength [MPa]	7.5
Linear thermal expansion [%]	1.36
Availability	**REF**
1 carton, 12.8 kg = 80 pieces 160 g bags	54270
The packs do not contain any mixing liquid.	
Accessories	**REF**
BegoSol® mixing liquid, 1 bottle = 1 l	51090
BegoSol® mixing liquid, 1 canister = 5 l	51091

DIN EN ISO 15912

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Change of delivery form:
1. filling quantity changed
2. Please order BegoForm® liquid seperatly. The packs do not contain any mixing liquid

BegoForm® – Refractory stump material for ceramic inlays, onlays and veneers

- The expansion properties of BegoForm®, which have been tailored for the ceramics from well-known manufacturers, enable an excellent accuracy of fit for individually layered inlays, onlays and veneers
- Stumps with an extremely high edge-strength and smooth, precise surfaces mean optimal conditions for problem-free processing of ceramic materials – avoiding undesirable cracks, for example
- The consistently high firing stability of BegoForm®, even after several cycles, enables ceramic corrections without any loss of precision
- Pleasant deflasking properties round off the clear and simple handling
- Reliable expansion control for excellent fit results thanks to the special BegoForm® mixing liquid

Product details

Scope of delivery	Contents	Presentation	Qty	REF
BegoForm®, 15 pieces 90 g bags with 1 metering syringe The packs do not contain any mixing liquid. Please order the liquid and the invesment seperatly.	1.35 kg	box	1	52785
Accessories	**Contents**	**Presentation**	**Qty**	**REF**
BegoForm® liquid	250 ml	bottle	1	52786

A detailed brochure can be found at www.bego.com/download-center.

Complementary product

Wirosil®
- REF: 52000 (page 23)
- Wirosil® is an addition-curing two-component silicone, which reproduces duplicate models extremely precisely thanks to its high dimensional stability

Wirosil®

BegoSol® – Mixing liquid for BEGO investment materials

- Depending on the alloy and the field of application, the required mixing ratio can be created for these liquids using distilled or demineralised water
- The higher the concentration of the mixing liquid, the greater the expansion of the investment material

Product details

Availability	Contents	Presentation	Qty	REF
BegoSol® (Anti-freeze optimization up to –10 °C) Mixing liquid for Wirovest®plus, WiroFast, Wiroplus® S, Wirovest®, Bellavest® T and Bellasun	1 litre	bottle	1	51090
BegoSol®	5 litres	canister	1	51091
BegoSol® HE (frost-sensitive) Spezial-Mixing liquid for Bellavest® SH, Bellavest® DR, Bellavest® T, VarseoVest P	1 litre	bottle	1	51095
BegoSol® HE	5 litres	canister	1	51096
BegoSol® K (frost-sensitive) Spezial-Mixing liquid for WiroFine, BellaStar XL	1 litre	bottle	1	51120
BegoSol® K	5 litres	canister	1	51121
Accessories	**Contents**	**Presentation**	**Qty**	**REF**
Universal measuring cup	100 ml	piece	1	14607

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Bellatherm® – Phosphate-bonded soldering investment material

- Bellatherm® is dimensionally stable, thixotropic and suitable for high soldering temperatures
- Bellatherm® has extremely high edge-strength, enables an excellent accuracy of fit and can be separated from the soldered object under cold running water

Product details

Availability	Contents	Presentation	Qty	REF
Bellatherm®	4.5 kg	tub	1	51105

Wiropaint plus – Fine investment material for partial denture technique

- It provides a very smooth casting surface and speeds up finishing work considerably
- Wiropaint plus hardly settles in the bottle and is always ready for use

Product details

Availability	Contents	Presentation	Qty	REF
Wiropaint plus	200 ml	bottle	1	51100

Images and illustrations are examples; colours, symbols, designs and information on the depicted labels and/or packaging may differ from reality.

Rapid Ringless System compatible with BEGO Rapid wax system

- For all BEGO crown and bridge investment materials
- Compatible with Rapid Wax System Minimal wear, thus lower costs than with comparable systems
- Universally applicable for many casting systems, easy separation of mould and mould ring
- Time savings in relation to mould systems with foil sleeve, iron ring, etc.

Product details

Availability	Presentation	Qty	REF
Casting ring and base Size 1 for up to 100 g of investment material	set	1	52665
Size 3 for up to 180 g of investment material	set	1	52666
Size 6 for 360 g of investment material	set	1	52667

Vacuum mixing bowl for Motova 100 and Motova 300

- Two versions of the tried and tested vacuum mixing bowl are available for use in Motova 100/300 due to the highly diverse properties of the mixture
- For reliably mixing investment material and plaster, the M version is used
- For thoroughly mixing silicone, the MS version is used

Product details

Availability	Presentation	Qty	REF
For investment material and plaster			
• Vacuum mixing bowl M 250 ml Quantity of powder: 60 – 180 g	piece	1	16271
• Vacuum mixing bowl M 550 ml Quantity of powder 100 – 400 g	piece	1	16272
• Vacuum mixing bowl M 835 ml Quantity of powder 160 – 550 g	piece	1	16273
• Vacuum mixing bowl M 1200 ml Quantity of powder 320 – 800 g	piece	1	16274
For duplicating silicone			
• Vacuum mixing bowl MS 550 ml Filling quantity of silicone 50 – 250 g	piece	1	16275
• Vacuum mixing bowl MS 835 ml Filling quantity of silicone 100 – 375 g	piece	1	16276
• Vacuum mixing bowl MS 1200 ml Filling quantity of silicone 150 – 600 g	piece	1	16277

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Base socket mould formers for crown and bridge work

- For making moulds with metal mould rings with hard rubber base plate

Product details

Availability	Contents	Presentation	Qty	REF
with hard rubber base plate				
Size 3	4 pieces	set	1	52627
Size 6	4 pieces	set	1	52628
Size 9	4 pieces	set	1	52629

Metal mould rings for crown and bridge work

- Suitable for all BEGO crown and bridge investment materials
- Long service life thanks to special steel design

Product details

Availability	Contents	Presentation	Qty	REF
Metal mould rings				
Size 3 – for 180 g of investment material	4 piece	set	1	52422
Size 6 – for 360 g of investment material	4 piece	set	1	52423
Size 9 – for 540 g of investment material	4 piece	set	1	52424

Fleecy inlay strips for moulds permit unimpeded expansion of the investment material

- The BEGO fleecy inlay strips for moulds contain no asbestos. They burn without residue and provide room for the investment material to expand
- The lining strips are the same height as the rings

Product details

Availability	Contents	Presentation	Qty	REF
Fleecy inlay strips for moulds				
40 mm	3 × 30 m	pack	1	52409
45 mm	3 × 30 m	pack	1	52408

Overview of BEGO investment materials: Indications and recommended liquid

	Crowns and bridges				
	Bellavest® SH	**Bellavest® DR**	**Bellavest® T**	**BellaStar XL**	**Bellasun**
					
Casting non-precious alloys	✓✓✓	✓✓✓	✓✓✓	✓✓	✓✓✓
Double crowns in non-precious alloys	✓✓✓	✓✓✓	✓✓***	✓	✓✓✓
Casting precious alloys	✓✓	✓✓	✓✓	✓✓✓	✓✓
Pressable ceramics	✓✓✓				
Implant prosthodontics	✓✓✓	✓✓✓	✓✓	✓✓✓	✓
CoCr partial-denture duplication with silicone	✓**		✓**	✓**	✓**
CoCr partial-denture hydrocolloid duplication					
Shock heat	✓✓✓	✓✓✓		✓✓✓	
Conventional	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓
Working time* (20°C) [min]	5	5	5	3:30	7
Flowability [mm]	140–145	135–140	approx. 125	approx. 135	approx. 155
BegoSol®			✓		✓
BegoSol® HE	✓	✓	✓		
BegoSol® K				✓	

✓✓✓ optimal · ✓✓ recommended · ✓ suitable
* after mixing · ** lift-off procedure · *** with BegoSol® HE · **** only conventional

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Partial dentures					3D CAD/Cast® partial denture frames
WiroFine	WiroFast	Wiroplus® S	Wirovest®	Wirovest®plus	VarseoVest P
					
					✓✓
✓	✓	✓✓	✓	✓	
✓✓✓	✓✓	✓✓✓	✓✓	✓✓	✓✓
✓✓	✓✓✓		✓✓✓	✓✓✓	
✓✓✓	✓✓✓				✓✓✓
✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	
3:30	3	4	3	3:15	6:00
ca. 140	ca. 141	ca. 130	ca. 115	ca. 120	ca. 137
✓****	✓	✓	✓	✓	
					✓
✓					

Images and illustrations are examples; colours, symbols, designs and information on the depicted labels and/or packaging may differ from reality.

Funnel formers for partial denture technique

To be used when there is insufficient space for the other funnel former:

1. Universal funnel former for partial denture work. Matches all BEGO casting systems
2. Funnel former with reservoir for combination crucible
3. Funnel former, standard model. It is used when there is insufficient space for the other funnel former
4. Funnel former for Nautilus® and other casting systems

Product details

Availability	Contents	Presentation	Qty	REF
1 Funnel formers	100 pieces	pack	1	52068
2 Funnel formers	10 pieces	pack	1	52075
3 Funnel formers	10 pieces	pack	1	52060
4 Funnel formers	10 pieces	pack	1	52066

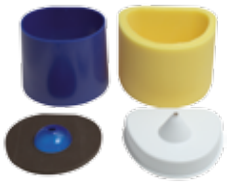
BEGO mould formers

- Eliminates fixing and grinding of the investment models when the BEGO combination duplicating flask is used
- Both mould formers can also be used with all other duplicating systems
- Bases for lifting technique, ideal for plotted CAD/CAM frames and partial denture frames made from light-curing wax

Product details

Availability	Contents	Presentation	Qty	REF
Mould former, small, red	4 pieces	set	1	52390
Mould former, large, blue	4 pieces	set	1	52400

Availability	Contents	Presentation	Qty	REF
Base with funnel former set (2× large/2× small)	4 pieces	set	1	52401
Silicon mould former incl. funnel former	1 pieces	set	1	54877



NON-PRECIOUS ALLOYS

With non-precious alloys from BEGO you‘re always on the safe side. Millions of patients treated worldwide are best proof of this. For partial dentures and crowns and bridges, the BEGO range of alloys are optimised on the basis of decades of research and continuous innovation.
WIRONIUM® and Wironit®, Wiron® and Wirobond® are the names many people automatically think of when it comes to non-precious alloys. Their physical and biological properties are legendary.

Wirobond® 280 – The non-precious premium alloy for more than 10 years

- Wirobond® 280 is setting standards in the non-precious metal-to-ceramic alloy segment because of a Vickers hardness of 280 HV10, it can be finished to a particularly high standard
- Extremely corrosion resistant thanks to the optimal interaction of the indispensable elements chrome and molybdenum
- Very good melting and casting properties
- No prolonged cooling necessary*, even with large spans
- Secure bonding with ceramics
- High strength irrespective of the span size, and therefore a wide range of indications
- Reliable processing in accordance with the proven BEGO system
- Biocompatible and corrosion-resistant

* Exceptions: Creation (Willi Geller), Reflex® (Wieland Dental + Technik GmbH & Co. KG)

Product details				
Composition in % by mass				
Co 60.2 · Cr 25.0 · W 6.2 · Mo 4.8 · Ga 2.9 · Mn · Si				
Alloy characteristics	**Standard values**			
Typ (ISO 22674)	5			
Density	8.6 g/cm³			
Preheating temperature	900–1000 °C			
Solidus, liquidus temperature	1355, 1430 °C			
Casting temperature approx.	1500 °C			
Young's modulus	215 GPa			
Proof strength ($R_{p0.2}$)	515 MPa			
Ultimate strength (R_m)	680 MPa			
Elongation after fracture (A_5)	14 %			
Vickers hardness	280 HV10			
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	14.3			
Availability	**Contents**	**Presentation**	**Qty**	**REF**
Wirobond® 280	1000 g	pack	1	50134
Wirobond® 280	250 g	pack	1	50135
Accessories	**Contents**	**Presentation**	**Qty**	**REF**
Wiroweld CoCr laser wire, carbon-free Ø 0.35 mm	2 m – 1.5 g	pack	1	50003
Ø 0.5 mm	1,5 m – 2 g	pack	1	50005
Wirobond® soldering rods	4 g	pack	1	52622

A detailed brochure, instructions for use and our biocertificate can be found at www.bego.com/download-center.

ISO 22674 · ISO 9693-1

Com-plementary product!

Bellavest® SH

Bellavest® SH precision investment

- REF 54252 (page 42)
- A universal investment for crowns and bridges, pressable or press-on ceramic, speed or conventional heating, also suitable for telescope crowns fabricated using non-precious alloy

Images and illustrations are examples; colours, symbols, designs and information on the depicted labels and/or packaging may differ from reality.

Wirobond® C – Cobalt-chrome metal-to-ceramic alloy

- Nickel- and beryllium-free
- Simple processing thanks to reliable casting time recognition
- Carbon-free composition – particularly well suited for laser welding
- The element cerium ensures high bond strength with the ceramic, minimising the risk of subsequent flaking or chipping
- Low thermal conductivity – protects the pulp and ensures high wearing comfort for the patient
- Biocompatible and corrosion-resistant thanks to a firmly-adhering passive layer

Tried-and-tested worldwide for over 25 years

Product details				
Composition in % by mass				
Co 63.3 · Cr 24.8 · W 5.3 · Mo 5.1 · Si 1.0 · Ce				
Alloy characteristics	**Standard values**			
Typ (ISO 22674)	4			
Density	8.5 g/cm³			
Preheating temperature	900–1000 °C			
Solidus, liquidus temperature	1360, 1420 °C			
Casting temperature approx.	1500 °C			
Young's modulus	180 GPa			
Proof strength ($R_{p0.2}$)	440 MPa			
Ultimate strength (R_m)	780 MPa			
Elongation after fracture (A_5)	16 %			
Vickers hardness	315 HV10			
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	14.3			
Availability	**Contents**	**Presentation**	**Qty**	**REF**
Wirobond® C	1000 g	pack	1	50115
Wirobond® C	250 g	pack	1	50116
Accessories	**Contents**	**Presentation**	**Qty**	**REF**
Wiroweld CoCr laser wire, carbon-free Ø 0.35 mm	2 m – 1.5 g	pack	1	50003
Ø 0.5 mm	1.5 m – 2 g	pack	1	50005
Wirobond® soldering rods	4 g	pack	1	52622

A detailed brochure, instructions for use and our biocertificate can be found at www.bego.com/download-center.

ISO 22674 · ISO 9693-1

Types acc. to ISO 22674

Type 3: Indicated for fixed, multi-unit prosthetic restorations, e.g. bridgework.

Type 4: Indicated for prosthetic restorations or sections thereof with thin cross-sections exposed to very high loads, e.g. removable partial dentures, clasps, veneered crowns, long-span bridgework or bridges with small cross-sections, bars, retainers, implant-supported superstructures.

Type 5: Indicated for prosthetic restorations where parts thereof require a combination of high rigidity and strength, e.g. thin removable partial dentures, sections with thin cross-sections, clasps.

Wirobond® SG – Cobalt-chrome metal-to-ceramic alloy

- Nickel- and beryllium-free
- Reliable use even in problematic cases and restorations with large bridge spans
- Simple and reliable casting time recognition thanks to optimal silicon content
- Normal cooling facilitates economical and effective working
- Reliable metal-ceramic bond with no need for an additional, expensive bonder
- Biocompatible and corrosion-resistant

Reliable casting time recognition

Product details	
Composition in % by mass	
Co 63.8 · Cr 24.8 · W 5.3 · Mo 5.1 · Si 1.0	
Alloy characteristics	**Standard values**
Typ (ISO 22674)*	4
Density	8.6 g/cm³
Preheating temperature	900–1000 °C
Solidus, liquidus temperature	1385, 1420 °C
Casting temperature approx.	1480 °C
Young's modulus	200 GPa
Proof strength ($R_{p0.2}$)	485 MPa
Ultimate strength (R_m)	630 MPa
Elongation after fracture (A_5)	11 %
Vickers hardness	305 HV10
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	14.3
Availability	**REF**
Wirobond® SG, 1 pack = 1000 g	50128
Wirobond® SG, 1 pack = 250 g	50127
Accessories	**REF**
Wiroweld CoCr laser wire, carbon-free Ø 0.35 mm, 1 pack = 2 m – 1.5 g	50003
Ø 0.5 mm, 1 pack= 1.5 m – 2 g	50005
Wirobond® soldering rods, 1 pack = 4 g	52622

ISO 22674 · ISO 9693-1

* The various types are shown on page 55

Wirobond® LFC – Special alloy for low-fusing ceramic materials

- Cobalt-chrome metal-to-ceramic alloy for high-expanding ceramics (low-fusing ceramic materials)
- The CTE value enables normal cooling – for economical and effective working
- Strong bond with the low-fusing ceramic – even when subjected to multiple firing
- Controlled carbon content – very well suited for soldering and laser welding
- Biocompatible and corrosion-resistant

Special alloy for high-expanding, low-fusing ceramics

Product details	
Composition in % by mass	
Co 33.9 · Fe 30.0 · Cr 28.5 · Mo 5.0 · Mn 1.0 · Si 1.0 · C · N	
Alloy characteristics	**Standard values**
Typ (ISO 22674)*	5
Density	7.9 g/cm³
Preheating temperature	900–1000 °C
Solidus, liquidus temperature	1335, 1435 °C
Casting temperature approx.	1480 °C
Young's modulus	205 GPa
Proof strength ($R_{p0.2}$)	655 MPa
Ultimate strength (R_m)	920 MPa
Elongation after fracture (A_5)	17 %
Vickers hardness	315 HV10
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	15.6
Availability	**REF**
Wirobond® LFC, 1 pack = 1000 g	50255
Wirobond® LFC, 1 pack = 250 g	50256
Accessories	**REF**
Wiroweld CoCr laser wire, carbon-free Ø 0.35 mm, 1 pack = 2 m – 1.5 g	50003
Ø 0.5 mm, 1 pack= 1.5 m – 2 g	50005
Wirobond® soldering rods, 1 pack = 4 g	52622

A detailed brochure, instructions for use and our biocertificate can be found at www.bego.com/download-center.

ISO 22674 · ISO 9693-1

Images and illustrations are examples; colours, symbols, designs and information on the depicted labels and/or packaging may differ from reality.

Wiron® 99 – Premium NiCr alloy for metal-to-ceramic work or composite veneering – beryllium-free

- Worldwide proven reliability in use since 1988
- Secure metal-ceramic bond, minimising the risk of subsequent flaking or chipping
- Low vickers hardness – for easy, fast finishing and polishing to a high lustre
- Simple casting time recognition – problem-free processing in all induction casting machines
- High modulus of elasticity for greater protection against deformations caused by masticatory forces
- High wearing comfort for patients thanks to the low thermal conductivity
- Biocompatible and highly corrosion-resistant thanks to a firmly-adhering passive layer

Product details				
Composition in % by mass				
Ni 65.6 · Cr 22.5 · Mo 9.5 · Si 1.0 · Ce · Mn · Nb				
Alloy characteristics	**Standard values**			
Typ (ISO 22674)*	3			
Density	8.3 g/cm³			
Preheating temperature	900–1000 °C			
Solidus, liquidus temperature	1310, 1360 °C			
Casting temperature approx.	1450 °C			
Young's modulus	170 GPa			
Proof strength ($R_{p0.2}$)	335 GPa			
Ultimate strength (R_m)	655 GPa			
Elongation after fracture (A_5)	43 %			
Vickers hardness	195 HV10			
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	13.9			
Availability		**Contents**	**Presentation**	**Qty**	**REF**
Wiron® 99		1000 g	pack	1	50225
Wiron® 99		250 g	pack	1	50226
Accessories		**Contents**	**Presentation**	**Qty**	**REF**
Wiroweld Ni-Cr laser wire, carbon-free Ø 0.35 mm		5.5 m – 4 g	roll	1	50006
Wiron®- soldering rods		4 g	pack	1	52625

A detailed brochure, instructions for use and our biocertificate can be found at www.bego.com/download-center.
* The various types are shown on page 55

ISO 22674 · ISO 9693-1

Com-plementary product!

Bellavest® SH

Bellavest® SH precision investment

- REF 54252 (page 42)
- A universal investment for crowns and bridges, pressable or press-on ceramic, speed or conventional heating, also suitable for telescope crowns fabricated using non-precious alloy

Images and illustrations are examples; colours, symbols, designs and information on the depicted labels and/or packaging may differ from reality.

Wiron® light – The non-precious alloy for metal-to-ceramic work, with light oxide – beryllium-free

- Simple casting, easy finishing, reliable working
- The outstanding melting properties of the alloy ensure reliable filling of the mould
- The oxide of Wiron® light is considerably lighter in colour in comparison to conventional NiCr alloys and can be removed very quickly and easily
- The reduced preheating temperature of 800°C means that a very smooth surface of the cast object is achieved
- Normal cooling with many of the ceramics – for time-saving, economical veneering
- The favourable CTE value permits reliable ceramic veneering
- Biocompatible and highly corrosion-resistant thanks to a firmly-adhering passive layer

Product details				
Composition in % by mass				
Ni 64.6 · Cr 22.0 · Mo 10.0 · Si 2.1 · B · Mn · Nb				
Alloy characteristics	**Standard values**			
Typ (ISO 22674)*	4			
Density	8.2 g/cm³			
Preheating temperature	800 °C			
Solidus, liquidus temperature	1210, 1280 °C			
Casting temperature approx.	1350 °C			
Young's modulus	185 GPa			
Proof strength ($R_{p0.2}$)	460 MPa			
Ultimate strength (R_m)	860 MPa			
Elongation after fracture (A_5)	9 %			
Vickers hardness	280 HV10			
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	13.7			
Availability	**Contents**	**Presentation**	**Qty**	**REF**
Wiron® light	1000 g	pack	1	50270
Wiron® light	250 g	pack	1	50272
Accessories	**Contents**	**Presentation**	**Qty**	**REF**
Wiroweld NC, Ni-Cr laser wire, free of carbon	5.5 m – 4 g	roll	1	50006
Wiron® soldering rods	4 g	pack	1	52625
Diapol Diamant polishing compound	5 g	pack	1	52305

A detailed brochure, instructions for use and our biocertificate can be found at www.bego.com/download-center.
* The various types are shown on page 55

ISO 22674 · ISO 9693-1

Wiron® light: To ensure that the ceramic bonds firmly to the metal, it is essential that the bonding surface is trimmed with sharp tungsten carbide cutters. The manufacturer's recommended speed must be adhered to. Following this, the surface must be sandblasted with an abrasive of predefined grit size, such as Korox® 250, at the recommended compressed air pressure of 3–4 bars. It is essential to clean the surface with a steam-cleaner, such as the Triton, or in boiling water.

Oxide colour after divesting with Wiron® light

Oxide colour after divesting with traditional NiCr alloy

Com-plementary product!

Diapol

Diapol diamond polishing paste
- REF 52305 (page 92)
- Economical in use: approx. 3 mm of paste is sufficient for a 3-unit bridge

Images and illustrations are examples; colours, symbols, designs and information on the depicted labels and/or packaging may differ from reality.

Wirocer plus – Nickel-chrome metal-to-ceramic alloy – beryllium-free

- Tried and tested alloy from BEGO – inexpensive thanks to an optimised manufacturing process
- Low hardness – easy and time-saving finishing
- Normal cooling – for economical veneering
- High wearing comfort for the patient thanks to the low thermal conductivity
- Biocompatible and corrosion-resistant

Inexpensive and economical

Product details				
Composition in % by mass				
Ni 65.2 · Cr 22.5 · Mo 9.5 · Si 1.5 · Mn · Nb				
Alloy characteristics		**Standard values**		
Typ (ISO 22674)*		3		
Density		8.3 g/cm³		
Preheating temperature		900–950 °C		
Solidus, liquidus temperature		1295, 1360 °C		
Casting temperature approx.		1450 °C		
Young's modulus		175 GPa		
Proof strength ($R_{p0.2}$)		355 MPa		
Ultimate strength (R_m)		630 MPa		
Elongation after fracture (A_5)		34 %		
Vickers hardness		220 HV10		
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}		13.8		
Availability	**Contents**	**Presentation**	**Qty**	**REF**
Wirocer plus	1000 g	pack	1	50080
Accessories	**Contents**	**Presentation**	**Qty**	**REF**
Wiroweld Ni-Cr laser wire, carbon-free Ø 0.35 mm	5.5 m – 4 g	roll	1	50006
Wiron® soldering rods	4 g	pack	1	52625

A detailed brochure, instructions for use and our biocertificate can be found at www.bego.com/download-center.
* The various types are shown on page 55

ISO 22674 · ISO 9693-1

Use the helpful BEGO info-media in our download center at www.bego.com/download-center

- **Metal-ceramics brochure, REF 82093**
- **Partial denture brochure, REF 82068**
- **Videos (CDs) on casting BEGO alloys using our casting machines Nautilus® and Fornax®, REF 82987 at www.bego.com**

Wironit® LA – Specially developed for laser welding

- Wironit® LA – wide range of indications for reliable application in the partial denture and combination technique
- Controlled carbon content and the addition of tantalum ensure excellent laser welding properties even in extreme cases
- Low thermal conductivity means high wearing comfort for the patient
- Thanks to the high elongation of fracture, clasps can be activated without any problem
- Biocompatible and corrosion-resistant

Product details

Composition in % by mass					
Co 63.5 · Cr 29.0 · Mo 5.5 · Si 1.2 · C · Mn · N · Ta					
Alloy characteristics	**Standard values**				
Type (ISO 22674)*	5				
Density	8.2 g/cm³				
Preheating temperature	950–1050 °C				
Solidus, liquidus temperature	1260, 1390 °C				
Casting temperature approx.	1450 °C				
Young's modulus	240 GPa				
Proof strength ($R_{p0.2}$)	690 MPa				
Ultimate strength (R_m)	890 MPa				
Elongation after fracture (A_5)	9 %				
Vickers hardness	365 HV10				
Availability		**Contents**	**Presentation**	**Qty**	**REF**
Wironit® LA		1000 g	pack	1	50100
Accessories		**Contents**	**Presentation**	**Qty**	**REF**
Wiroweld, Co-Cr laser wire, carbon-free Ø 0.35 mm		2 m – 1.5 g	roll	1	50003
Ø 0.5 mm		1.5 m – 2 g	pack	1	50005
Kobalt-Chrom-Lot		4 g	pack	1	52520

A detailed brochure, instructions for use and our biocertificate can be found at www.bego.com/download-center.
* The various types are shown on page 55

ISO 22674

Wironit® LA: During wax-up, the casting funnel former must be positioned 10 mm above the highest point of the wax-up, to avoid the risk of defects in the cast object. BEGO partial denture courses at www.bego.com/fortbildung

Com-plementary product!

WiroFine universal investment

- REF 54345 (page 39)
- A universal investment for all indications in cast partial denture and fixed/ removable work, for gel or silicone duplication, speed or conventional heating

WiroFine

Images and illustrations are examples; colours, symbols, designs and information on the depicted labels and/or packaging may differ from reality.

Wironit® – The classic partial denture alloy for clasp partial dentures

- Successful worldwide since 1953 – ideally suited for conventional clasp partial dentures
- The reduced Vickers hardness allows easier finishing and polishing
- The clasps can be activated very easily by the dentist
- Biocompatible and corrosion-resistant

Product details	
Composition in % by mass	
Co 64.0 · Cr 28.5 · Mo 5.0 · Si 1.0 · Mn 1.0 · C	
Alloy characteristics	**Standard values**
Type (ISO 22674)*	5
Density	8.3 g/cm³
Preheating temperature	950–1050 °C
Solidus, liquidus temperature	1265, 1395 °C
Casting temperature approx.	1460 °C
Young's modulus	185 GPa
Proof strength ($R_{p0.2}$)	615 MPa
Ultimate strength (R_m)	895 MPa
Elongation after fracture (A_5)	10 %
Vickers hardness	360 HV10
Availability	**REF**
Wironit®, 1 pack = 1000 g	50030
Wironit®, 1 pack = 250 g	50020
Accessories	**REF**
Wiroweld CoCr laser wire, carbon-free Ø 0.35 mm, 1 pack = 2 m – 1.5 g	50003
Ø 0.5 mm, 1 pack = 1.5 m – 2 g	50005
Cobalt-chrome solder, 1 pack = 4 g	52520

A detailed brochure, instructions for use and our biocertificate can be found at www.bego.com/download-center.

ISO 22674

Wironit® extrahart – The ideal partial denture alloy for combination work

- Due to its high proof strength and ultimate strength, this alloy is ideally suited for combination work
- Outstanding casting properties thanks to the special composition with silicon and carbon
- Very low thermal conductivity of the alloy emphasises the wearing comfort of the prosthesis
- Biocompatible and corrosion-resistant

Product details	
Composition in % by mass	
Co 63.0 · Cr 30.0 · Mo 5.0 · Si 1.0 · Mn 1.0 · C	
Alloy characteristics	**Standard values**
Type (ISO 22674)*	5
Density	8.2 g/cm³
Preheating temperature	950–1050 °C
Solidus, liquidus temperature	1260, 1390 °C
Casting temperature approx.	1420 °C
Young's modulus	185 GPa
Proof strength ($R_{p0.2}$)	635 MPa
Ultimate strength (R_m)	900 MPa
Elongation after fracture (A_5)	8 %
Vickers hardness	385 HV10
Availability	**REF**
Wironit® extrahart, 1pack = 1000 g	50060
Wironit® extrahart, 1 pack = 250 g	50050
Accessories	**REF**
Wiroweld CoCr laser wire, carbon-free Ø 0.35 mm, 1 pack = 2 m – 1.5 g	50003
Ø 0.5 mm, 1 pack = 1.5 m – 2 g	50005
Cobalt-chrome solder, 1 pack = 4 g	52520

* The various types are shown on page 55

ISO 22674

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I.W.C. – International WIRONIUM®-Circle

- A symbol that generates confidence
- A worldwide mark of quality
- A quality association of leading dental laboratories

The philosophy

The INTERNATIONAL WIRONIUM® CIRCLE – or I.W.C. for short – is a worldwide association of leading dental laboratories, which all share a common aim: the production of first-class dental laboratory work using top-quality materials.

The alloys

WIRONIUM®, WIRONIUM® plus and WIRONIUM® extra-hard are cobalt-chrome alloys for all aspects of the partial denture technique.
Biocompatibility thanks to selected high-purity alloy components and deformation-resistant prosthetics, which can withstand even extreme masticatory loads. From the clinical viewpoint, the quality of the WIRONIUM® alloys is the basis of perfect solutions – in both technical and aesthetic terms – for an extremely wide variety of cases.

The system

The WIRONIUM® alloys are used in a specific and precisely coordinated material chain, in accordance with the successful BEGO partial denture system.
The advantage for you: partial dentures made from WIRONIUM® offers an impressively accurate fit even with slender design and give the patient the certainty of reliable function, wearing comfort and long service life.

The know-how

The I.W.C. quality symbol indicates to the dentist that your laboratory is constantly expanding its know-how and employs the latest materials and equipment.

WIRONIUM® plus – Premium Cobalt-chrome partial denture alloy

Partial dentures par excellence

- Enhanced version of the top-quality alloy WIRONIUM®
- Can be used universally in the field of combination work and clasp partial dentures
- Problem-free processing using the BEGO partial denture system
- Very low thermal conductivity means high wearing comfort for the patient
- Increased elongation limit and high modulus of elasticity for high resistance to possible deformations caused by masticatory forces
- The high elongation limit minimises the danger of clasp fractures
- Controlled carbon content ensures excellent laser welding properties
- Biocompatible and corrosion-resistant

Product details					
Composition in % by mass					
Co 62.5 · Cr 29.5 · Mo 5.0 · Mn 1.5 · Si 1.0 · C · N · Ta					
Alloy characteristics	**Standard values**				
Type (ISO 22674)*	5				
Density	8.2 g/cm³				
Preheating temperature	950–1050 °C				
Solidus, liquidus temperature	1345, 1390 °C				
Casting temperature approx.	1440 °C				
Young's modulus	240 GPa				
Proof strength ($R_{p0.2}$)	715 MPa				
Ultimate strength (R_m)	1010 MPa				
Elongation after fracture (A_5)	14 %				
Vickers hardness	350 HV10				
Availability		**Contents**	**Presentation**	**Qty**	**REF**
WIRONIUM® plus (is only supplied to I.W.C. laboratories)		1000 g	pack	1	50190
Accessories		**Contents**	**Presentation**	**Qty**	**REF**
Wiroweld CoCr laser wire, carbon-free Ø 0.35 mm		2 m – 1.5 g	pack	1	50003
Ø 0.5 mm		1.5 m – 2 g	pack	1	50005
Cobalt-chrome solder		4 g	pack	1	52520

A detailed brochure, instructions for use and our biocertificate can be found at www.bego.com/download-center.
* The various types are shown on page 55

ISO 22674

WIRONIUM® plus: With particularly slender partial denture constructions, inaccessible areas should be polished with a handpiece brush to prevent deformations and avoid material reduction at unplanned points on the cast object.

Com-plementary product!

WiroFine

WiroFine universal investment

- REF 54345 (page 39)
- A universal investment for all indications in cast partial denture and fixed/ removable work, for gel or silicone duplication, speed or conventional heating

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WIRONIUM®

Cobalt-chrome partial denture alloy

- Top-quality alloy, proven worldwide since 1972 – ideally suited for conventional clasp partial dentures
- Excellent flow properties – simple processing
- Particularly suitable for laser welding with Wiroweld welding wire thanks to the reduced carbon content
- Biocompatible and corrosion-resistant

Product details	
Composition in % by mass	
Co 63.0 · Cr 29.5 · Mo 5.0 · Si 1.0 · C · Mn · N	
Alloy characteristics	**Standard values**
Type (ISO 22674)*	5
Density	8.2 g/cm³
Preheating temperature	950–1050 °C
Solidus, liquidus temperature	1360, 1405 °C
Casting temperature approx.	1440 °C
Young's modulus	230 GPa
Proof strength ($R_{p0.2}$)	680 MPa
Ultimate strength (R_m)	855 MPa
Elongation after fracture (A_5)	15 %
Vickers hardness	345 HV10
Availability	**REF**
WIRONIUM®, 1 pack = 1000 g (is only supplied to I.W.C. laboratories)	50065
Accessories	**REF**
Wiroweld CoCr laser wire, carbon-free Ø 0.35 mm, 1 pack = 2 m – 1.5 g	50003
Ø 0.5 mm, 1 pack = 1.5 m – 2 g	50005
Cobalt-chrome solder, 1 pack = 4 g	52520

A detailed brochure, instructions for use and our biocertificate can be found at www.bego.com/download-center.
* The various types are shown on page 55

ISO 22674

WIRONIUM® extra-hard

Cobalt-chrome partial denture alloy

- Ideal when an alloy with higher strength is required
- Very slender designs possible – for high patient comfort
- Reduced carbon content – particularly well suited for laser welding
- Biocompatible and corrosion-resistant

Product details	
Composition in % by mass	
Co 61.0 · Cr 30.0 · Mo 5.0 · Mn 2.0 · Si 1.0 · C · N	
Alloy characteristics	**Standard values**
Type (ISO 22674)*	5
Density	8.2 g/cm³
Preheating temperature	950–1050 °C
Solidus, liquidus temperature	1360, 1395 °C
Casting temperature approx.	1450 °C
Young's modulus	230 GPa
Proof strength ($R_{p0.2}$)	735 MPa
Ultimate strength (R_m)	1035 MPa
Elongation after fracture (A_5)	15 %
Vickers hardness	345 HV10
Availability	**REF**
WIRONIUM® extrahart, 1 pack = 1000 g (is only supplied to I.W.C. laboratories	50175
Accessories	**REF**
Wiroweld CoCr laser wire, carbon-free Ø 0.35 mm, 1 pack = 2 m – 1.5 g	50003
Ø 0.5 mm, 1 pack = 1.5 m – 2 g	50005
Cobalt-chrome solder, 1 pack = 4 g	52520

* The various types are shown on page 55

ISO 22674

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Wironit® – Clasp wire

- Springy steel designed for acrylic work and regulations

Product details

Composition in % by mass

Fe 68.0 · Cr 17.0 · Ni 11.5 · Mo 2.0 · Mn 1.0 · N · Si

Availability	Contents	Presentation	Qty	REF
round, Ø 0.6 mm	40 m	roll	1	48220
round, Ø 0.7 mm	30 m	roll	1	48250
round, Ø 0.8 mm	20 m	roll	1	48280
round, Ø 0.9 mm	10 m	roll	1	48310
round, Ø 1.0 mm	10 m	roll	1	48340
half-round, 0.65 x 1.30 mm = 10 m	10 m	roll	1	48430
half-round, 0.75 x 1.50 mm = 10 m	10 m	roll	1	48460

Talmi – Dental training metal

- Ideal golden-yellow training metal – for inexpensive training or demonstrations
- The mechanical values and working characteristics are comparable with those of a type 2 gold-casting alloy
- Easy to process – Talmi can be melted and cast using any casting machine
- Talmi is not intended for medical use and must not be used in the oral cavity

Produktdetails

Composition in % by mass

Cu 87.0 · Sn 12.0 · Co 1.0

Alloy characteristics	Standard values
Density	8.8 g/cm³
Preheating temperature	700 °C
Solidus, liquidus temperature	815, 985 °C
Casting temperature approx.	1200 °C
Young's modulus	95 GPa
Proof strength ($R_{p0.2}$)	250 MPa
Elongation after fracture (A_5)	50 %
Vickers hardness	120 HV5

Availability	Contents	Presentation	Qty	REF
Talmi	1 g	pack	1	50220
Accessories	**Contents**	**Presentation**	**Qty**	**REF**
Talmi solder 700 °C	3 g	roll	1	50221

WiroFix – Friction element for the combination technique

Product details

Availability	Presentation	Qty	REF
BEGO WiroFix, 1 set consisting of:	1 set		52831
ceramic spacers, white,		6	
friction elements, yellow		6	
friction elements, pink		6	
Accessories	**Presentation**	**Qty**	**REF**
WiroFix friction element, medium, pink, height: 3 mm, Ø 1 mm	1 pack	6	52832
WiroFix friction element, strong, violett, height: 3 mm, Ø 1 mm	1 pack	6	52833
WiroFix ceramic spacer, white	1 pack	6	52834
WiroFix accessories, standard, yellow, height: 3 mm, Ø 1 mm	1 pack	6	52835

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PREHEATING AND CASTING

Today, an optimum casting result is programmable, but it can also be achieved through individual know-how and substantial practical experience. BEGO supports the desired application by means of automatically controlled preheating with Miditherm and programmed casting with Nautilus®. Fornax® and Miditherm are ideal for individual procedures. At the same time, the BEGO system assists you – from model preparation right through to actual casting.

Fornax® T – The compact casting machine with induction melting device and integrated power cooling

- Compact benchtop casting machine with very high-performance induction heating guarantees short melting cycles, minimises oxidation and thus facilitates subsequent finishing
- Compact dimensions and design give the new Fornax® T a very small footprint
- Integrated power cooling provides for over 50 casts in a row, even with high ambient temperatures with moulds made of phosphate-bonded investment materials
- High output reserves with low power consumption of just 16 amps
- Casting temperature of up to 1550 °C: ideal for all commercially available dental alloys (except titanium)
- The user-friendly operating panel provides information on all parameters and gives quick and easy access to all major functions
- Very quick adjustment to different casting mould sizes by means of a simple mechanism ensures fast working

With integrated power cooling

Product details					
Technical data					
Height	460 mm				
Height with cover open	990 mm				
Width	710 mm with lever				
Depth	630 mm				
Depth with cover open	690 mm				
Rated voltage	230 VAC, 50/60 Hz				
Special voltage	200–240 VAC, 50/60 HZ				
Current consumption	approx. 16 A				
Heating power	3.6 kVA, 65 kHz				
Weight	80 kg				
Scope of delivery		**Contents**	**Presentation**	**Qty**	**REF**
Fornax® T 230 VAC, 50/60 Hz			piece	1	26425
Ceramic melting crucible		6 pieces	pack	1	52483
Graphite inserts		6 pieces	pack	1	52454
Ceramic inserts for ceramic melting crucible		6 pieces	pack	1	52455
Base socket mould former size 3, 6 and 9		1 piece each	pack	1	
Accessories		**Contents**	**Presentation**	**Qty**	**REF**
Base socket mould formers, size 3		4 pieces	set	1	52627
Base socket mould formers, size 6		4 pieces	set	1	52628
Base socket mould formers, size 9		4 pieces	set	1	52629
Mould tongs, 64 cm long			piece	1	11599
Mould tongs, 55 cm long			piece	1	39754
Fornax® service box for 4 crucibles and 1 set of tongs			piece	1	25337
Wiromelt melting power (non-precious)		80 g	tin	1	52526
Auromelt HF melting powder		65 g	dispenser	1	52525

A detailed brochure can be found at www.bego.com/download-center.

Com-plementary product!

Fornax® crucible
- REF 52482 (page 75)
- and crucible inserts

Fornax® crucible

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Nautilus® CC plus – Intelligent casting with data interface

- Automatic casting for consistent, reproducible results every single time
- Casting point recognition ensures that the cast objects are filled at the temperature recommended by the alloy manufacturer
- High-performance induction heating guarantees short melting cycles, minimises oxidation and thus facilitates subsequent finishing
- Proven quality assurance: Nautilus® CC plus saves up to 1,000 casting logs
- Large colour touch display with intuitive menu navigation for convenient and easy operation
- Integrated power cooling provides for over 50 casts in a row, even with high ambient temperatures with moulds made of phosphate-bonded investment materials
- Integrated cooling saves water and helps to protect the environment
- Suitable for all commercially available precious-metal and non-precious alloys (excluding titanium)
- Compact dimensions and design give the Nautilus® CC plus a very small footprint
- Eco mode switches off all unnecessary components in idle mode and reduces operating costs

Includes an integrated cooling system

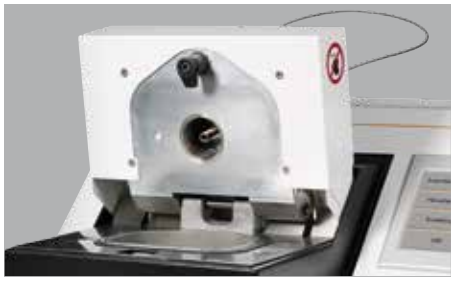
Compressed air tank

Mould tongs

Nautilus® crucible

Com-plementary product!

Nautilus® crucibles
- REF 52488 (page 73)
- corresponding crucible handles and crucible inserts



Nautilus® CC plus

The Nautilus® casting crucible principle enables the liquidus temperature to be exceeded by less than with other casting systems because the melt flows from the hot region of the crucible directly into the casting mould below.

Images and illustrations are examples; colours, symbols, designs and information on the depicted labels and/or packaging may differ from reality.

Product details					
Technical data					
Height	420 mm				
Height with optical waveguide	650 mm				
Width	600 mm				
Depth	670 mm				
Rated voltage	230 VAC, 50/60 Hz				
Power at rated voltage of 230 V	16 A				
Compressed air connection (Connection thread 1/4“)	at least 5 bar (0.5 [MPa])				
Air consumtion	approx. 100 l/min				
Weight	approx. 64 kg				
Scope of delivery		**Contents**	**Presentation**	**Qty**	**REF**
Nautilus® CC plus, 230 V, 50/60 Hz			piece	1	26415
Ceramic crucibles (each made of 2 halves)		4 pieces	pack	1	52488
Plastic handles for ceramic crucibles		2 pieces	pack	1	52436
Ceramic handles for ceramic crucibles		2 pieces	pack	1	52467
Graphite ingots		2 pieces	pack	1	
Glass carbon cylinder			pack	1	
Forceps			piece	1	30002
Mould holder plate, ceramic			piece	1	30259
Mould holder (ceramic) for sizes 1 and 9			piece	1	12257
Mould holder (ceramic) for sizes 3 and 6			piece	1	13362
Mould holder plate (metal grid) for partial denture (25 mm high)			piece	1	37618
Mould holder plate (metal grid) for partial denture (15 mm high)			piece	1	10073
Base socket mould formers, sizes 3, 6 and 9		1 piece each	pack	1	
Partial denture funnel former			piece	1	
Accessories		**Contents**	**Presentation**	**Qty**	**REF**
Compressed air tank with wall bracket			piece	1	16260
Printer for casting logs (for previous version of unit)			pack	1	16267
Mould tongs, 55 cm long			piece	1	39754
Base socket mould formers, size 3		4 pieces	set	1	52627
Base socket mould formers, size 6		4 pieces	set	1	52628
Base socket mould formers, size 9		4 pieces	set	1	52629
Partial denture funnel formers		10 pieces	pack	1	52066
Wiromelt melting power (non-precious)		80 g	tin	1	52526
Auromelt HF melting powder		65 g	dispenser	1	52525

A detailed brochure can be found at www.bego.com/download-center.

With the BEGO vacuum pressure casting method, the alloy quantity can be limited to the volume of the cast object, including the feed sprues and connecting channels plus reservoir. As a rule, no casting cone is required.

Images and illustrations are examples; colours, symbols, designs and information on the depicted labels and/or packaging may differ from reality.

Nautilus® T –Compact, benchtop vacuum pressure-casting machine with integrated power cooling and high-performance induction heating

- High-performance induction heating guarantees short melting cycles, minimises oxidation and thus facilitates subsequent finishing
- Large touch display with intuitive menu navigation for convenient and easy operation
- Integrated power cooling provides for over 50 casts in a row, even with high ambient temperatures with moulds made of phosphate-bonded investment materials
- Integrated cooling saves water and helps to protect the environment
- Compact dimensions and design give the Nautilus® T a very small footprint
- Suitable for all commercially available precious-metal and non-precious alloys (excluding titanium)
- Eco mode switches off all unnecessary components in idle mode and reduces operating costs

With integrated power cooling and eco mode

Compressed air tank

Mould tongs

Com-plementary product!

Nautilus® crucibles
- REF 52488 (page 73)
- corresponding crucible handles and crucible inserts

Nautilus® crucible

Images and illustrations are examples; colours, symbols, designs and information on the depicted labels and/or packaging may differ from reality.

Product details					
Technical data					
Height	420 mm				
Height with cover open	520 mm				
Width	600 mm				
Depth	670 mm				
Rated voltage	230 VAC, 50/60 Hz				
Power at rated voltage of 230 VAC	16 A				
Compressed air connection (Connection thread 1/4“)	at least 5 bar (0.5 [MPa])				
Air consumption	approx. 100 l/min				
Weight	approx. 63 kg				
Scope of delivery		**Contents**	**Presentation**	**Qty**	**REF**
Nautilus® T, 230 VAC, 50/60 Hz			piece	1	26420
Ceramic crucibles (each made of 2 halves)		4 pieces	pack	1	52488
Plastic handles for ceramic crucibles		2 pieces	pack	1	52436
Ceramic handles for ceramic crucibles		2 pieces	pack	1	52467
Graphite ingots		2 pieces	pack	1	
Glass carbon cylinder			pack	1	
Forceps			piece	1	30002
Mould holder plate, ceramic			piece	1	30259
Mould holder (ceramic) for sizes 1 and 9			piece	1	12257
Mould holder (ceramic) for sizes 3 and 6			piece	1	13362
Mould holder plate (metal grid) for partial denture (25 mm high)			piece	1	37618
Mould holder plate (metal grid) for partial denture (15 mm high)			piece	1	10073
Base socket mould formers, sizes 3, 6 and 9		1 piece each	pack	1	
Partial denture funnel former			piece	1	
Accessories		**Contents**	**Presentation**	**Qty**	**REF**
Compressed air tank with wall bracket					16260
Mould tongs, 55 cm long				1	39754
Base socket mould formers, size 3		4 pieces	set	1	52627
Base socket mould formers, size 6		4 pieces	set	1	52628
Base socket mould formers, size 9		4 pieces	set	1	52629
Partial denture funnel formers		10 pieces	pack	1	52066
Wiromelt melting power (non-precious)		80 g	tin	1	52526
Auromelt HF melting powder		65 g	dispenser	1	52525

A detailed brochure can be found at www.bego.com/download-center.

Miditherm 100/200 MP – Microprocessor-controlled preheating furnaces for crowns, bridges and partial dentures

- The right preheating furnace in the right size for every requirement
- Monitoring of the temperature using a microprocessor in combination with a precision thermocouple ensures that there are no miscasts due to the casting rings being at the incorrect temperature
- Four-zone heating, with a max. temperature of 1,100 °C, guarantees uniform heating of the casting rings and consistent results during casting
- The heating elements are embedded in robust industrial ceramic – for increased reliability and a long service life
- Maximum capacity of the mould chamber:
  - 100 MP: 9 × size 3 mould
    4 × BEGO large mould former, blue
  - 200 MP: 32 × size 3 mould
    9 × BEGO large mould former, blue
- Flexible programming with 4 programmable holding stages per programme, infinitely variable selection of the heat rate from 1–9 °C/Min and 1 speed programme reliably covers all applications in CrCo and crown and bridge work

Product details

Technical data	Miditherm 100 MP	Miditherm 200 MP	Regulus
Height	480 mm	600 mm	600 mm
Width	350 mm	470 mm	160 mm
Depth	420 mm	550 mm	140 mm
Mould chamber Height	100 mm	110 mm	
Mould chamber Width	150 mm	200 mm	
Mould chamber Depth	170 mm	250 mm	
Rated voltage	200–240 VAC, 50/60 Hz	200–240 VAC, 50/60 Hz	220–240 VAC, 50/60 Hz
Power at rated voltage of 230 VAC	1,600 VA	2,700 VA	
Temperature	max. 1,150 °C	max. 1,150 °C	
Weight	approx. 28 kg	approx. 56 kg	3.4 kg

Availability	Presentation	Qty	REF
Miditherm 100 MP with ceramic base plate	piece	1	26150
Miditherm 200 MP with ceramic base plate	piece	1	26155

Accessories	Contents	Presentation	Qty	REF
Ceramic base plate for Miditherm 100		piece	1	34954
Ceramic base plate for Miditherm 200		piece	1	13984
Thermocouple for Miditherm 100/200	2 pieces	pack	1	14087
Extraction pipe for Miditherm 100/200, short		piece	1	35544
Spare heating mould for Miditherm 100		piece	1	34956
Spare heating mould for Miditherm 200		piece	1	13985
Regulus furnace extraction system		piece	1	25750

A detailed brochure can be found at www.bego.com/download-center.

Miditherm 100 MP

Regulus furnace extraction system

Images and illustrations are examples; colours, symbols, designs and information on the depicted labels and/or packaging may differ from reality.

Nautilus® ceramic crucible FC made from an innovative special ceramic

- The design of the Nautilus® ceramic crucible FC is protected as a three-dimensional mark
- The crucible is composed of the innovative development of a high-temperature-resistant special ceramic, which offers many advantages over conventional crucible ceramics
- The extremely homogeneous structure of the ceramic contributes to its consistently reproducible accuracy of fabrication
- Extraordinarily smooth ceramic surfaces facilitate the discharge of the melt
- The high thermal shock resistance guarantees the long useful life of the Nautilus® ceramic crucible FC

Product details

Availability	Contents	Presentation	Qty	REF
Nautilus® ceramic crucible FC	4 pieces	pack	1	52488

Three-dimensional mark IR 914028

Plastic handles for Nautilus® ceramic crucibles

Product details

Availability	Contents	Presentation	Qty	REF
Plastic handles for Nautilus® ceramic melting crucibles, exclusively for use in the casting of partial denture- and non-precious alloys	2 pieces	pack	1	52436

Ceramic handles for Nautilus® ceramic crucibles

Product details

Availability	Contents	Presentation	Qty	REF
Ceramic handles for Nautilus® ceramic crucibles, to be used for the casting of precious alloys	2 pieces	pack	1	52467

Graphite cylinder for Nautilus® ceramic crucibles

- For Nautilus® T/CC/CC plus
- For melting of precious alloys

Product details

Availability	Contents	Presentation	Qty	REF
Graphite ingot	6 pieces	pack	1	52468

Glass carbon cylinder for Nautilus® ceramic crucibles

- For Nautilus® T/CC/CC plus
- For melting precious-metal alloys, including those with a high palladium content

Product details

Availability	Contents	Presentation	Qty	REF
Glass carbon cylinder	4 pieces	pack	1	52473

BEGO ceramic crucibles for Fornax® and Nautilus®

With the BEGO ceramic crucibles for Fornax® and Nautilus® BEGO is setting the most exacting standards.
An innovative method of manufacture for high-temperature-resistant crucibles, developed in scientific collaboration, permits:
- **an extremely homogeneous material structure**
- **consistently reproducible accuracy of fabrication**
- **extraordinarily smooth ceramic surface, which facilitates discharge of the melt**
- **high thermal shock resistance, which ensures a long useful life**
- **The new material is even resilient enough to withstand aggressive alloys**

When calculating the cost per casting, the useful life of the crucible must be taken into account in addition to its purchase price. The BEGO ceramic crucibles for Fornax® and Nautilus® set a new benchmark for cost-efficient casting. To make sure that you only purchase genuine BEGO crucibles, check that they have an extremely smooth surface and bear the engraved BEGO logo.

Fornax® ceramic crucibles FC made from special ceramic

- With the BEGO ceramic crucible for Fornax®, BEGO is setting the most exacting standards.
- An innovative method of manufacture for high-temperature-resistant crucibles, developed in scientific collaboration, permits an extremely homogeneous material structure which facilitates a consistently reproducible accuracy of fabrication
- An extraordinarily smooth surface on the inside of the ceramic crucible facilitates the discharge of the melt
- The high thermal shock resistance of the new material guarantees a long useful life
- The new material is even resilient enough to withstand aggressive alloys

Product details

Availability	Contents	Presentation	Qty	REF
Fornax® FC ceramic crucible	6 pieces	pack	1	52483

European Community design protected DM/068 941

Graphite inserts for Fornax® ceramic crucibles

- For melting of precious-metal alloys

Product details

Availability	Contents	Presentation	Qty	REF
Graphite inserts	6 pieces	pack	1	52454

Ceramic inserts for Fornax® ceramic melting crucibles

- For melting of precious-metal alloys with a high palladium content

Product details

Availability	Contents	Presentation	Qty	REF
Ceramic inserts	6 pieces	pack	1	52455

Lolipot – Crucible engobe for Fornax®- and Nautilus® ceramic crucibles

- This prolongs the life of the crucible and reduces casting residues in the melting crucible

Product details

Availability	Contents	Presentation	Qty	REF
Lolipot (pressure pulverizer)	100 ml	bottle	1	52477

Ceramic crucibles for torche melting

- The melting crucibles are made of special ceramic material and have a long service life through a high heat change resistance

Product details

Availability	Contents	Presentation	Qty	REF
Melting crucible, shallow trough, for cobalt-chrome partial denture alloys and non-precious alloys that can be used with Fundor, Fundor T, Castor and Pollux with double centrifugal arm	6 pieces	pack	1	52426
Melting crucible, deep trough, for precious-metal alloys that can be used with Fundor, Fundor T, Castor and Pollux with double centrifugal arm	6 pieces	pack	1	52425

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Auromelt HF – Melting powder

- Suitable for all melting processes of precious-metal and non-precious alloys
- Prevents the formation of oxide, even at low melting temperatures, and facilitates recognition of the correct moment for casting

Product details

Availability	Contents	Presentation	Qty	REF
Auromelt HF (dispenser)	65 g	tin	1	52525

Wiromelt – Melting powder

- For melting Wiron® and Wirobond® alloys with Nautilus® and other casting units
- Prevents the formation of oxide and facilitates the detection of the correct casting moment

Product details

Availability	Contents	Presentation	Qty	REF
Wiromelt (dispenser)	80 g	tin	1	52526

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BLASTING AND EXTRACTION

Blasting of cast objects is not the favourite job for many dental technicians.
But complete removal of all oxide and investment material is essential for castings of the highest quality. The BEGO blasting materials Korox® and Perlablast® meet every requirement. When used in the BEGO blasting units, they provide the ideal preparation for subsequent surface finishing.

Protempomatic plus – Fully automatic sandblaster for up to 6 cast partial denture frameworks simultaneously

Efficient, quick, cost-effective

- The integrated aim point in the nozzle enables exact positioning of the workpiece in the abrasive flow for quick, effective sandblasting
- Efficient use of blasting material emphasises the cost-effective sandblasting
- LED lighting in the blasting chamber has a service life of up to ten times longer than conventional lamps
- The swivel nozzle enables the unit to be used as an automatic or manual sandblaster for maximum application options in the laboratory
- The initial position of the nozzle can be magnetically locked for accurately setting the optimal nozzle angle during automatic and manual sandblasting to ensure the best possible sandblasting performance
- The viewing glass is locked in position by a magnetic switch: When it is opened, sandblasting is discontinued – for maximum operational safety
- The basket can be easily removed - for increased comfort during manual sandblasting
- Protempomatic can also be supplied without the filter module for connecting to a central extraction

Product details				
Technical data				
Height	540 mm			
Width	400 mm			
Depth	410 mm			
Rated voltage	230 VAC (plus), 50/60 Hz, 100–240 VAC (Z), 50/60 Hz			
Power at rated voltage of 230 VAC	1,225 W (plus), 25 W (Z)			
Compressed air connection	4–6 bar (0.4–0.6 [MPa]), 1/4“			
Air consumption	approx. 120 l/min			
Capacity	8 kg			
Weight excl. blasting material	approx. 20 kg			
Availability		**Presentation**	**Qty**	**REF**
Protempomatic plus incl. filter module, with 1 Class H filter, 1 safety filter bag, 1 suction hose with hand tube		piece	1	26390
Protempomatic Z for connection to the central extraction system		piece	1	26360
Accessories	**Contents**	**Presentation**	**Qty**	**REF**
Class H Filter		piece	1	18346
Filter bag	5 pieces	pack	1	18347
Hansa nozzle		piece	1	12136
Turntable, compl.		piece	1	12276
Replacement panel		piece	1	18354
Korox® 250 special corundum blasting material	8 kg	canister	1	46014
Korox® 250 special corundum blasting material large pack	20 kg	tub	1	54300
Korox® 110 special corundum blasting material	8 kg	canister	1	46044
Korox® 110 special corundum blasting material large pack	20 kg	tub	1	54299
Protective curtain		piece	1	18284
Rubber sleeves	4 pieces	pack	1	18358

A detailed brochure can be found at www.bego.com/download-center.

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EasyBlast – For the perfect view during finishing

- Integrated LED lighting in the pencil blaster for an optimal view with no shadows when finishing, even intracoronally
- For the thorough removal of investment materials and oxides in order to avoid undesirable biological reactions with the patient
- LED technology enables the detection of cracks in the ceramic during blasting – providing the earliest possible quality assurance and avoiding complaints at a later date
- LED lighting in the blasting chamber has a service life of up to ten times longer than conventional lamps
- The EasyBlast can be upgraded to a 4-chamber blasting unit by adding 2 further blasting modules – you save the costs of buying a further unit
- In combination with the LED lighting, an intelligent colour coding system on the tanks and in the blasting chamber makes it impossible to mix up the blasting media

EasyBlast – easy to operate, versatile and ergonomic

Images and illustrations are examples; colours, symbols, designs and information on the depicted labels and/or packaging may differ from reality.

Product details				
Technical data				
Height	345 mm			
Width	400 mm			
Depth/Depth with additional tank	425/505 mm			
Rated voltage	100–240 VAC, 50/60 Hz			
Power	25 W max.			
Compressed air connection	3–6 bar (0.3–0.6 [MPa]), 1/4“			
Air consumption	approx. 60 l/min.			
Nominal internal diameter for connecting extraction system	32 mm			
Weight excluding blasting material	without additional tanks: 10.9 kg / with 2 additional tanks 13.9 kg			
Scope of delivery		**Presentation**	**Qty**	**REF**
EasyBlast with 2 blasting material containers and 2 illuminated pencil blasters For connection to the central extraction system, with replaceable nozzles for different sizes of grain, initial fill of the blasting material		piece	1	26385
EasyBlast with 3 blasting material containers and 3 illuminated pencil blasters		piece	1	26386
EasyBlast with 4 blasting material containers and 4 illuminated pencil blasters		piece	1	26387
EasyBlast basic with 2 blasting material containers and 2 pencil blasters without LED lighting		piece	1	26375
EasyBlast basic with 3 blasting material containers and 3 pencil blasters without LED lighting		piece	1	26376
EasyBlast basic with 4 blasting material containers and 4 pencil blasters without LED lighting		piece	1	26377
Accessories	**Contents**	**Presentation**	**Qty**	**REF**
Mesh panel guard		piece	1	18350
Basic blasting module (without lighting)		piece	1	18130
Blasting module (with lighting)		piece	1	18390
Replacement panel		piece	1	17787
Fine blasting nozzle, Ø 1.2 mm, for Korox® 250, Korox® 110 and Perlablast® (125 µm)	2 pieces	pack	1	14550
Fine blasting nozzle, Ø 0.8 mm, for Korox® 50 and Perlablast® micro (50 µm)	2 pieces	pack	1	14549
Fine blasting nozzle, Ø 0.6 mm, for Korox® 50 and Perlablast® micro (50 µm)	2 pieces	pack	1	14548
Fine blasting nozzle, Ø 0.4 mm for Korox® 25		pack	1	14547
Korox® 250 special corundum blasting material	8 kg	canister	1	46014
Korox® 250 special corundum blasting material large pack	20 kg	tub	1	54300
Korox® 110 special corundum blasting material	8 kg	canister	1	46044
Korox® 110 special corundum blasting material large pack	20 kg	tub	1	54299
Korox® 50 special corundum blasting material	8 kg	canister	1	46062
Korox® 50 special corundum blasting material large pack	20 kg	tub	1	54298
Korox® 25 special corundum blasting material	8 kg	canister	1	46036
Perlablast® – 125 µm – blast-polishing material	8 kg	canister	1	46043
Perlablast® – 125 µm – blast-polishing material large pack	20 kg	tub	1	54301
Perlablast® micro – 50 µm – blast-polishing material	8 kg	canister	1	46092
Perlablast® micro – 50 µm – blast-polishing material large pack	20 kg	tub	1	54302
Spare collars	2 piece	pack	1	13376

A detailed brochure can be found at www.bego.com/download-center.

Duostar plus – Multifunctional combination of a fine blasting and recycling sandblaster unit

The all-rounder in your laboratory

- Integrated LED lighting in the pencil blaster for an optimal view with no shadows when finishing, even intracoronally
- For the thorough removal of investment materials and oxides in order to avoid undesirable biological reactions with the patient
- LED lighting in the blasting chamber has a service life of up to ten times longer than conventional lamps for economical working and reduced maintenance costs
- Combines the properties of 2 units in the smallest of spaces and offers the advantages of both a fine blasting unit and a recycling sandblaster unit. This makes Duostar an ideal, economical investment, also for small and medium-sized laboratories
- Duostar is also available without a filter module, for connecting to the central extraction system

Product details

Technical data	
Height	590 mm
Width	400 mm
Depth	420 mm
Rated voltage	230 VAC (plus), 50/60 Hz, 100–240 VAC (Z), 50/60 Hz
Power at rated voltage of 230 VAC	1,225 W (plus), 25 W (Z)
Compressed air connection	4–6 bar (0.4–0.6 [MPa]), 1/4“
Air consumption	approx. 120 l/min
Capacity recirculation system	8 kg
Capacity pencil blaster	700 g per container
Weight excl. blasting material	23 kg

Availability	Presentation	Qty	REF
Duostar plus incl. initial filling, microblast media container Korox® 110/Perlablast® micro, 2 microblaster handpiece nozzle with LED lighting x 1.2 mm / 0.8 mm, incl. filter module with 1 Class H filter, 1 safety filter bag, 1 suction hose with hand tube	piece	1	26395
Duostar Z for connection to the central extraction system	piece	1	26365

Accessories	Contents	Presentation	Qty	REF
Class H Filter		piece	1	18346
Filter bag	5 pieces	pack	1	18347
Hansa nozzle		piece	1	12136
Replacement panel		piece	1	17787
Fine blasting nozzle, Ø 1.2 mm for Korox® 250, Korox® 110 and Perlablast® (125 µm)	2 pieces	pack	1	14550
Fine blasting nozzle, Ø 0.8 mm for Korox® 50 and Perlablast® micro (50 µm)	2 pieces	pack	1	14549
Fine blasting nozzle, Ø 0.6 mm for Korox® 50 and Perlablast® micro (50 µm)	2 pieces	pack	1	14548
Fine blasting nozzle, Ø 0.4 mm for Korox® 25		pack	1	14547
Korox® 250 special corundum blasting material	8 kg / 20 kg	canister / tub	1	46014 / 54300
Korox® 110 special corundum blasting material	8 kg / 20 kg	canister / tub	1	46044 / 54299
Korox® 50 special corundum blasting material	8 kg / 20 kg	canister / tub	1	46062 / 54298
Korox® 25 special corundum blasting material	8 kg	canister	1	46036
Perlablast® – 125 µm – blast-polishing material	8 kg / 20 kg	canister / tub		46043 / 54301
Perlablast® micro – 50 µm – blast-polishing material	8 kg / 20 kg	canister / tub		46092 / 54302
Mesh panel guard		piece	1	18350
Rubber sleeves	4 pieces	pack	1	18358

A detailed brochure can be found at www.bego.com/download-center.

Filtermodul – For the highest level of occupational safety

The highest level of occupational safety
- Approved for working with hazardous dusts
- Complies with the highest protection class H (this means that every unit is checked to assure the H classification)
- Efficiently protects you from carcinogenic dusts

Economical
- The automatic switch-on function is ideal for using the Filtermodul in direct combination with the blasting units
- The module is automatically switched on and off by the activation and deactivation of the blasting unit
- Reduces power consumption, lowers costs and protects the environment

Push & Clean function
- For constantly high suction, even with an increasingly full filter bag
- Enables rapid and effective filter cleaning at the touch of a button

Product details					
Technical data					
Height	595 mm				
Width	383 mm				
Length	455 mm				
Rated voltage	220–240 VAC, 50/60 Hz				
Power at rated voltage of 230 VAC	1,200 W				
Weight	10.5 kg				
Availability			**Presentation**	**Qty**	**REF**
Filter module complete with 1 Class H filter, 1 safety filter bag, 1 suction hose with hand tube			piece	1	26380
Accessories		**Contents**	**Presentation**	**Qty**	**REF**
Class H Filter			piece	1	18346
Safety filter bag		5 pieces	pack	1	18347

Korox® – Special corundum blasting material made from 99.6 % aluminium oxide

- Alpha corundum with high hardness
- It remains sharp-edged until completely worn
- Efficacy and ease of use are reflected in its impressive compatibility with the BEGO recycling sandblasters such as Duostar or Protempomatic
- When used in pencil sandblasters, Korox® 250 not only removes investment material residues and oxides efficiently, but is also ideal for optimal surface conditioning of non-precious alloys prior to ceramic firing
- The high purity of Korox means there is no risk of contamination of the alloy surface
- Korox® complies with the regulations of occupational safety institutes

Product details

Availability	Contents	Presentation	Qty	REF
Korox® 250 (250 µm)	8 kg	canister	1	46014
Korox® 250 (250 µm) large pack	20 kg	tub	1	54300
Korox® 110 (110 µm)	8 kg	canister	1	46044
Korox® 110 (110 µm) large pack	20 kg	tub	1	54299
Korox® 50 (50 µm)	8 kg	canister	1	46062
Korox® 50 (50 µm) large pack	20 kg	tub	1	54298
Korox® 25 (25 µm)	8 kg	canister	1	46036

Perlablast® – Blasting material for blast polishing

- It consists of tiny, lead-free beads of soda glass which produce an even silky lustre
- The controlled size and shape of the beads make for a high level of usability and therefore efficient, economical working
- No metal is lost because the surface is compressed and not abraded
- No finishing is necessary on the surfaces which are not intended for polishing
- It can be used for all standard crown and bridge alloys to give the occlusal surfaces a matt finish

Product details

Availability	Contents	Presentation	Qty	REF
Perlablast® (125 µm)	8 kg	canister	1	46043
Perlablast® (125 µm) large pack	20 kg	tub	1	54301
Perlablast® micro (50 µm)	8 kg	canister	1	46092
Perlablast® micro (50 µm) large pack	20 kg	tub	1	54302

SURFACE TREATMENT

Surface finishing is an important step in the fabrication of a prosthesis. The appropriate fine grinding stones and devices such as the Triton SLA steam blaster have been tried and tested in practice for many years. For partial dentures, the Eltropol 300 electrolytic polishing unit and Wirolyt polishing liquid are a guarantee of good results.

Triton SLA – Wet and dry steam cleaner

Environmentally sound, intensive and versatile

- High-performance unit with “wet” and “dry steam” setting
- Fixed water connection with interconnected BEGO full demineralising cartridge effectively minimises calcification of the unit
- Steam pressure of approx. 3 bar for gentle but thorough cleaning
- High degree of safety through fixed connections consisting of copper tubing
- Corrosion-resistant housing made of special steel and plastic
- The insulation of the spray gun prevents the handpiece from heating up, thus ensuring maximum comfort even during longer periods of use
- Water flow switch cuts off the water supply immediately should leakages occur and prevents water damage in the laboratory

Product details				
Technical data				
Height	540 mm			
Width	380 mm			
Depth	280 mm			
Rated voltage	200–240 VAC, 50/60 Hz			
Special voltage	100–120 VAC, 50/60 Hz			
Power at rated voltage of 230 VAC	1.5 kW			
Boiler temperature at 3 bar	133 °C			
Steam pressure	3±0.2 bar (approx. 0.3 [MPa])			
Boiler capacity	2.9 l			
Water connection	3/4“, 4–6 bar			
Weight	13 kg			
Availability		**Presentation**	**Qty**	**REF**
Triton SLA with full demineralisation cartridge, ring spanner incl.		piece	1	26005
Accessories	**Contents**	**Presentation**	**Qty**	**REF**
Full demineralisation cartridge with 2 inserts and ring spanner		piece	1	37600
Inserts for cartridge	2 pieces	set	1	37602
Calex descaler for steam cleaner	1 litre	bottle	1	52125
Durox replacement one-way resin	6 litre	tub	1	52121
Ring spanner		piece	1	11044

A detailed brochure can be found at www.bego.com/download-center.

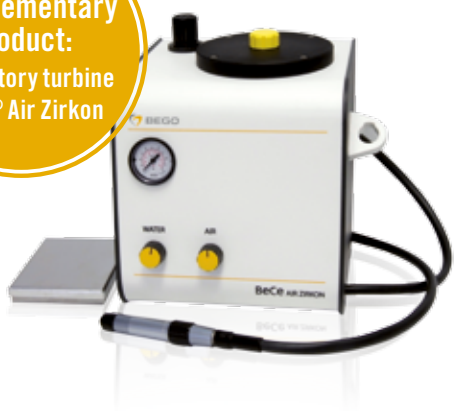
Paraskop® M – Multifunctional milling unit

- Milling and drilling wax and metal and machining zirconium dioxide with the optionally-available BEGO laboratory turbine
- Powerful, maintenance-free, brushless milling spindle with very long service life
- Vibration-free running of the spindle ensures optimum concentricity
- Continuously variable speed control up to 50,000 rpm, anticlockwise rotation up to 30,000 rpm for all conventional applications in milling work
- Offset-free and fast positioning of the model table thanks to electromagnetic locking
- The cold-light LEDs offer maximum light yield without heating the wax-up, and a service life ten times longer than conventional lamps

BeCe® Air Zirkon – Laboratory turbine

- The large 2 litre water tank is unique on the market and facilitates efficient working over a long period of time without refilling
- The integrated ceramic water filter removes dirt and dust particles from the water and prevents damage to the rotor
- The damping function reduces the sound level for increased comfort and pleasant working

Complementary product:
Laboratory turbine BeCe® Air Zirkon



Collection tray

Splash chamber

Product details Paraskop® M				
Technical data				
Height	approx. 488–570 mm			
Width	290 mm			
Depth	310 mm			
Rated voltage	200–240 VAC, 50/60 Hz			
Special voltage	100–120 VAC, 50/60 Hz			
Rated power of milling spindle	260 W			
RPM	approx. 1,000–50,000 U/min			
Anti-clockwise	up to 30,000 U/min			
Weight	8.9 kg			
Scope of delivery		**Presentation**	**Qty**	**REF**
Paraskop® M Basic unit with milling spindle, surveying head, model table and LED lamp, 2.35 mm chuck with depth stop, foot-switch, chuck key, cleaning brush and 2 spare fuses		piece	1	26340
Paraskop® M complete set with milling unit, laboratory turbine BeCe® Air Zirkon with control unit, collection container for Paraskop® M and splash cabin for ceramic work		set	1	26350
Accessories	**Contents**	**Presentation**	**Qty**	**REF**
Milling set 2.35 mm		set	1	43470
Collet chuck 2.35 mm with bit stop		piece	1	31722
Collet chuck 3 mm with bit stop		piece	1	31721
Dust protection cover		piece	1	32746
Refill holder		piece	1	22163
Graphite refills, 2 × 40 mm	10 pieces	pack	1	22150
Measurement set according to Ney	6 pieces	set	1	22160
Model table		piece	1	18110
Laboratory turbine		piece	1	26345
Water collection bowl for Paraskop® M		piece	1	18082
Splash cabin for trimming ceramics		piece	1	18083
Compressed air coupling set		piece	1	18115

Product details BeCe® Air Zirkon				
Technical data				
Height	260 mm			
Width	260 mm			
Depth	240 mm			
RPM	max. 320,000 U/min			
Operating pressure	1.0–3.2 bar			
Scope of delivery		**Presentation**	**Qty**	**REF**
Laboratory turbine BeCe® Air Zirkon with control unit (2 l water tank) and connection set		piece	1	26345

A detailed brochure can be found at www.bego.com/download-center.

Separating discs for separating sprues

1 BEGO separating discs for cutting off sprues safely and slicing through ceramic and metal, leaving only a narrow gap

2 SecuDisc separating discs are very safe and long-lasting due to the glass fibre mesh laid-in on both sides. This also saves working time and material. The 22 × 0.2 mm SecuDisc cuts precious alloys very economically

Product details

Availability	Rotational speed min^{-1}	Contents	Presentation	Qty	REF
1 BEGO Separating discs Ø 25 × 0.5 mm	15,000–20,000	100 pieces	pack	1	43040
Ø 35 × 0.8 mm	10,000–20,000	100 pieces	pack	1	43020
For ceramics: Ø 22 × 0.3 mm	15,000–20,000	100 pieces	pack	1	43060
2 SecuDisc Separating discs, Ø 22 × 0.2 mm	20,000–40,000	20 pieces	pack	1	54810
Ø 25 × 0.3 mm	20,000–40,000	20 pieces	pack	1	54809
Ø 38 × 0.5 mm	20,000–40,000	20 pieces	pack	1	54808

Rough grinding stones

- Ceramically bonded, for rough grinding large areas
- Shank size 2.35 mm – recommended rpm 10,000 to 15,000 min^{-1}

Product details

Availability	Contents	Presentation	Qty	REF
Rough grinding stones, Shank size 2.35 mm	12 pieces	pack	1	43110

Fine-grain grinding stones with a high cutting capacity

- Fine grit stones are used for efficient grinding of dental alloys. Shank size 2.35 mm – recommended rpm 30,000 to 50,000 min^{-1}
- The figures of the ISO No. denotes the largest diameter of the active section in 1/10 mm

Product details

Availability	Contents	Presentation	Qty	REF
Shank size 2.35 mm H1 ISO REF 066	100 pieces	pack	1	43160
H2 ISO REF 051	100 pieces	pack	1	43180
H3 ISO REF 035	100 pieces	pack	1	43200
H7 ISO REF 050	100 piecse	pack	1	43280

Perforated discs

- They are particularly resistant
- Perforated discs are highly resistant and are used for effective removal of sprue ends on the castings after separation
- The large circumference of the perforated discs optimize the cutting capacity

Product details

Availability	Recommended rotational speed min^{-1}	Contents	Presentation	Qty	REF
Perforated discs Ø 22 × 3 mm	10,000–15,000	100 pieces	pack	1	43100
Perforated discs Ø 34 × 3 mm	ca. 10,000	100 pieces	pack	1	43080

WiroFlex – Rubber polishing wheels

- Very thin and extremely flexible, they can be used for all dental alloys
- Especially well-suited for the partial denture technique, for finishing areas that are difficult to access as well as for crown and bridge work – for example, for interdental work because they conform very closely to the shape to be rubber-polished

Product details

Availability	Recommended rotational speed min^{-1}	Contents	Presentation	Qty	REF
WiroFlex Ø 22 × 1.2 mm	ca. 6,000–10,000	100 pieces	pack	1	43311

Rubber polishers for pre-polishing alloy surfaces

- For pre-polishing the surfaces of precious and non-precious castings which can then be high-lustre polished to a deep, lasting lustre

Product details

Availability	Recommended rotational speed min^{-1}	Contents	Presentation	Qty	REF
Rubber polishing wheels, Ø 22 × 3.5 mm	6,000–10,000				
green		100 pieces	pack	1	43310
black		100 pieces	pack	1	43330
Rubber polishing tips, Ø 6.5 × 24 mm	6,000–10,000				
green		100 pieces	pack	1	43350
black		100 pieces	pack	1	43370
Knife-edge rubber polishing wheels, Ø 15.5 mm	6,000–10,000				
green		100 pieces	pack	1	43390
black		100 pieces	pack	1	43410

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Diamond grinding stones sintered

- Diamond rotary instruments have a high cutting capacity and considerably longer service life compared with ceramic bonded fine grit stones
- The figures of the ISO No. denotes the largest diameter of the active section in 1/10 mm, 2.35 mm shaft diameter

Product details

Availability	Recommended rotational speed min^{-1}	Presentation	Qty	REF
Medium grain:				
1 ISO REF .080 (Ø head 8 mm)	ca. 18,000	piece	1	43491
2 ISO REF .050 (Ø head 5 mm)	ca. 23,000	piece	1	43492
3 ISO REF .050 (Ø head 5 mm)	ca. 23,000	piece	1	43494
4 ISO REF .023 (Ø head 2.35 mm)	ca. 30,000	piece	1	43495
5 ISO REF .037 (Ø head 3.7 mm)	ca. 27,000	piece	1	43496
6 ISO REF .050 (Ø head 5 mm)	ca. 23,000	piece	1	43497
Coarse grain:				
7 ISO REF .050 (Ø head 5 mm)	ca. 23,000	piece	1	43498

Milling set – Standard milling set for combined restorations

- The milling set includes the most important cutter geometries for creating telescopic crowns, bars and stress distribution arms
- For recommended rotational speeds, please see table

Product details

Availability	Recommended rotational speed min^{-1}	Presentation	Qty	REF
Milling set with 2.35 mm shaft diameter consists of:		set	1	43470
1 Carbide wax cutter, cylindrical 023	ca. 3.000	piece	1	
2 Carbide parallel cutter, coarse 023	ca. 6.000 (NP*-Alloys)	piece	1	
3 Carbide parallel cutter, fine 023	ca. 6.000 (NP*-Alloys)	piece	1	
4 Carbide spiral drill, 010	ca. 3.000 (Wax)	piece	1	
5 Carbide groove cutter, coarse 010	ca. 3.000	piece	1	
6 Carbide groove cutter 012	ca. 3.000 (NP*-Alloys)	piece	1	
7 Stainless steel parallel pin		piece	1	
8 Carbide shoulder cutter	ca. 3.000	piece	1	

NP-Alloys = Non-Precious-Alloys

Polishing point holder mandrels

- Particularly tough polishing point holders for all areas of dental laboratory work
- Shaft diameter 2.35 mm

Product details

Availability	Recommended rotational speed min^{-1}	Contents	Presentation	Qty	REF
Polishing tip holders, cylindrical	max. 80,000 or according as to the used polishers	12 pieces	pack	1	52300
Mandrels	max. 80,000 or according as to the used polishers/ separating disc	12 pieces	pack	1	52290

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Polishing compounds for dry polishing

- These compounds are wax-bonded and enable clean and practically dust-free work
- They do not contain any harmful quartz
- Polishing paste blue is a universal polishing paste, it creates even surfaces and ensures high shining
- Polishing paste white is a high shine polishing paste, made from finest polishing compounds

Product details

Availability	Contents	Presentation	Qty	REF
Rough and final polish, for cobalt-chrome, blue, approx. 1.5 kg	3 pieces	pack	1	52310
Final polish for metal and acrylic, white, approx. 1.5 kg	3 pieces	pack	1	52311

Steribim® super – High-performance polishing compound for acrylic dentures with germicidal effect

- Formaldehyde-free, biodegradable, toxicologically safe
- Special additives have a germicidal effect
- Kind to the skin
- No unpleasant odour
- Quartz-free – no danger of silicosis
- Excellent polishing performance down to the last gram – low residual roughness
- Smooth consistency
- Bactericidal effect

Product details

Availability	Contents	Presentation	Qty	REF
Steribim® super	10 kg	tub	1	54283

Diapol – Diamond polishing compound for special applications

- Improved Diapol formulation for optimal polishing results
- Easy to apply, excellent distribution over the surface combined with minimal consumption
- Diapol polishes even the hardest alloys and ceramics and is ideal for precious metals
- Ideal for polishing ceramic abutments or if a glaze firing is no longer possible
- Economical application: approx. 3 mm of compound is sufficient for a 3-unit bridge

Product details

Availability	Contents	Presentation	Qty	REF
Diapol (syringe)	5 g	syringe	1	52305

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Eltropol 300

- Automatic recommendation of polishing time for different sizes of framework prevents unnecessary reduction of material
- Innovative heating concept quickly brings the unit up to operating temperature
- Major time saving thanks to simultaneous polishing of two Co-Cr partial denture bases
- User-friendly operating panel with display and soft keys
- Indicator to show when the solution in the polishing bath is due to be changed ensures consistent polishing quality
- Simplified emptying directly into the canister via the drainage device, without coming into contact with the acid
- Uniform movement of the polishing bath ensures outstanding polishing results
- Supplementary cathode for frameworks ensures uniform polishing, even with frameworks which have a deep palate
- The automatic current stabilisation also supports uniform polishing

Product details

Technical data				
Height	452 mm			
Width	400 mm			
Depth	275 mm			
Rated voltage	100–240 VAC, 50/60 Hz			
Max. power consuption	200 VA			
Polishing current	max. 10 A			
Capacity of tub/bowl	2 litre			
Weight	10 kg			
Availability		**Presentation**	**Qty**	**REF**
Eltropol 300 110/240 VAC, with supplementary cathode, clamps with holder, model hook		piece	1	26310
Accessories	**Contents**	**Presentation**	**Qty**	**REF**
Supplementary cathode, straight		piece	1	17003
Supplementary cathode Eltropol 300		set	1	17000
Spare clamps with holder	2 pieces	set	1	36445
Spare clamps	6 pieces	set	1	14651
Model hook		piece	1	17001
Wirolyt polishing liquid	1 litre	bottle	1	52460

A detailed brochure can be found at www.bego.com/download-center.

Wirolyt – Electrolytic polishing liquid

- Liquid for electrolytic polishing of cobalt-chrome alloys
- Wirolyt is equally suited for Eltropol and polishing units of other manufacturers and enhances their performance and efficiency

Product details

Availability	Contents	Presentation	Qty	REF
Wirolyt	1 litre	bottle	1	52460

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JOINTING TECHNOLOGY/SOLDERING

When it comes to jointing, laser welding is the standard technology. BEGO has continuously expanded its expertise in this technology. Yet soldering still has an important role to play. For this method of jointing, the product range includes essential accessories such as BEGO solders and fluxes.

LaserStar T plus – The compact power laser from BEGO

- Compact and powerful, with user-friendly features
- Precision welding ensured by controllable welding energy with pulse time, charging voltage and focus adjustment
- Ergonomic design and positioning of the controls directly in the field of vision for convenient and fatigue-free working
- Simple operation with a large colour touch display and intuitive menu navigation
- Pulse shaping for high-strength stress- and crack-free joints
- Eco mode switches off all unnecessary components in idle mode and reduces operating costs
- The external Ventus extraction unit efficiently removes welding fumes from the welding chamber, ensuring maximum safety at the workplace

With colour touch display & eco mode

Ventus

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Product details					
Technical data					
Laser type	Nd: YAG				
Wavelength	1064 nm				
Pulse energy	60 joules				
Pulse length	0.3–50 ms				
Rated power	60 W				
Pulse peak output	max. 8 KW				
Spot diameter	0.2 mm to 2.6 mm				
Pulse frequency	Single pulse, 1–50 Hz				
Pulse shapes	4 fixed, 12 variable available				
Microscope	4H Jena with TrueView function 16x (visible magnification)				
Aiming device	Reticle in microscope				
Welding parameters	can be set both inside and outside the welding chamber				
Inert gas nozzles for argon	1 flexible, 1 fixed				
Illumination of welding chamber	LED ring light, adjustable				
Welding fume extraction	Integrated connection for an external extraction system, such as BEGO Ventus				
Water/air cooling	with ion filter, integrated				
Power supply	230 VAC/50 Hz, 1 phase, 13 A or 110 VAC/60 Hz; 1 phase, 15 A				
Weight	approx. 60 kg				
Height	505 mm				
Width	540 mm				
Depth	757 mm				
Availability			**Presentation**	**Qty**	**REF**
LaserStar T plus			piece	1	26405
Accessories		**Contents**	**Presentation**	**Qty**	**REF**
Hand rests, height-adjustable		2 pieces	set	1	15650
Pressure regulator for argon inert gas			piece	1	13380
Lifting table			piece	1	15649
Technical data Ventus Filter system					
Line voltage	200–240 VAC, 50/60 Hz				
Rated power	140 W				
Flow rate	59–120 m^3/h				
Sound level	47–53 dB(A)				
Dimensions (H x W x D)	512 × 320 × 310 mm				
Weight	21 kg				
Availability			**Presentation**	**Qty**	**REF**
Ventus filter system for LaserStar T plus			piece	1	26440

A detailed brochure can be found at www.bego.com/download-center.

LaserStar T plus

Optimal strength within a joint is achieved by 80% overlapping of the individual welding spots. Thus, the weld root of the preceding welding spot is partially melted again and filled with molten metal.

Additional materials for laser welding

Product details				
Availability	**Composition in % by mass**	**Thickness/mm**	**Quantity**	**REF**
Wiroweld (CoCrMo, C-free)	Co 65.0 · Cr 28.0 · Mo 6.0 · Mn · Si	0.35	2 m – 1.5 g	50003
Wiroweld (CoCrMo, C-free)	Co 65.0 · Cr 28.0 · Mo 6.0 · Mn · Si	0.5	1.5 m – 2 g	50005
Wiroweld NC (NiCrMo, C-free)	Ni 60.0 · Cr 22.0 · Mo 9.0 · Fe 4.0 · Nb 3.6 · Al · Co · Cu · Mn · Si · Ta · Ti	0.35	5.5 m – 4 g	50006
Titan Grade 2 wire	Ti 100.0	0.35	5 m – 2 g	50008
AuroLloyd® KF wire	Au 55.0 · Ag 29.3 · Pd 10.0 · In 3.5 · Zn 1.2 · Sn 1.0 · Re · Ru	0.35	5 g	61153
BegoCer® G wire	Au 51.5 · Pd 38.4 · In 8.7 · Ga 1.3 · Ru	0.35	5 g	61164
BegoPal® 300 wire	Pd 75.2 · In 6.3 · Ag 6.2 · Au 6.0 · Ga 6.0 · Re · Ru	0.35	5 g	61165
BegoStar® ECO wire	Pd 51.9 · Ag 23.0 · Au 15.0 · In 6.0 · Sn 4.0 · Ru	0.35	5 g	61171
Bio PlatinLloyd® wire	Au 74.9 · Ag 14.9 · Pt 7.8 · Zn 2.2 · Mg · Mn · Rh	0.35	5 g	61161
Bio PontoStar® wire	Au 86.7 · Pt 10.7 · Zn 1.5 · In · Mn · Rh · Ta	0.35	5 g	61157
Bio PontoStar® XL wire	Au 86.0 · Pt 11.5 · Zn 1.6 · Fe · In · Rh	0.35	5 g	61167
ECO d'OR wire	Ag 40.5 · Au 38.1 · Pd 13.0 · In 8.0 · Mn · Ta	0.35	5 g	61170
InLloyd® 100 wire	Au 78.1 · Ag 15.5 · Pt 3.9 · Zn 2.4 · Ir	0.35	5 g	61163
PlatinLloyd® 100 wire	Au 72.0 · Ag 13.7 · Cu 9.8 · Pt 3.5 · Ir · Zn	0.35	5 g	61152
PlatinLloyd® KF wire	Au 72.8 · Ag 16.1 · Pd 5.7 · Zn 3.0 · Pt 2.0 · Ir · Mn · Rh	0.35	5 g	61158
PlatinLloyd® M wire	Au 70.0 · Ag 11.7 · Cu 10.0 · Pt 5.0 · Zn 1.9 · Pd 1.0 · In · Re	0.35	5 g	61155
PontoLloyd® P wire	Au 77.5 · Pt 9.9 · Pd 8.9 · In 1.4 · Ag 1.0 · Cu · Fe · Ir · Sn	0.35	5 g	61154
Pontonorm wire	Au 73.8 · Ag 9.2 · Pt 9.0 · Cu 4.4 · Zn 2.0 · In 1.5 · Ir	0.35	5 g	61172
PontoRex® G wire	Au 70.0 · Ag 13.2 · Pt 9.4 · Cu 3.0 · Zn 2.0 · In 1.9 · Ir · Rh	0.35	5 g	61151
PontoStar® G wire	Au 85.5 · Pt 11.4 · In 2.3 · Fe · Rh	0.35	5 g	61150

ISO 28319

Thermostop – Heat protection paste

- Contains no asbestos
- Is used to cover the acrylic base when soldering has to be carried out close to it
- The acrylic parts do not have to be removed even when soldering is difficult

Product details				
Availability	**Contents**	**Presentation**	**Qty**	**REF**
Thermostop	140 g	tin	1	52540

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Minoxyd Flux

- For soldering precious- and non-precious-metal alloys and precious to cobalt-chrome or nickel-chrome
- It saves intermediate soldering and provides strong joints that hold up even under great stress and strain
- Minoxyd is also used for soldering metal-to-ceramic alloys in the furnace after firing the ceramic

Product details

Availability	Contents	Presentation	Qty	REF
Minoxyd	80 g	bottle	1	52530

Instructions on use

Thickened flux should be replaced. Adding water impairs the antioxidising effect.
Flux applied to the area of the joint must be dried slowly to avoid bubble formation and associated oxidation when the bubbles burst.

High-quality dental solders – Perfectly coordinated with BEGO alloys

- The special composition of the BEGO solders guarantees an easy flowability for the finest joining work
- High strength ensures protection against fractures at the joints
- Reliable soldering process and outstanding adhesion because the working temperature is geared to the respective alloy

Solders

Solder	REF	BEGO colour code	Composition % by mass (x = < 1 %)								Other (< 1 %)	Melting range °C
			Au	Pt	Pd	Ag	Cu	Sn	Zn	In		
BEGO Gold solder I	61017	2	72.0	1.9	1.0	8.0	7.0	–	10.0	–	Re	740, 790
BEGO Gold solder II	61043	3	73.0	1.9	–	10.0	3.0	–	12.0	–	Re	700, 730
BegoStar® solder	61081	8	55.0	–	10.0	34.0	–	–	–	1.0	–	1070, 1100
Bio PlatinLloyd® solder before firing	61108	3	90.7	2.0	–	–	–	–	7.2	–	Ir	820, 860
Bio PlatinLloyd® solder after firing	61109	6	68.5	1.6	–	13.8	–	–	16.0	–	Ir	680, 700
PontoLloyd® solder	61074	7	75.8	–	5.9	17.0	x	x	–	x	Fe · Ru	1030, 1085
PontoRex® solder before firing	61038	2	76.0	2.9	–	10.0	6.0	–	5.0	–	Ir	860, 880
PontoRex® solder after firing	61039	2	72.5	x	–	10.0	3.0	–	12.0	2.0	Ir	670, 700
PontoStar®-G solder	61045	2	64.0	x	–	34.8	–	–	–	x	Rh	1000, 1015

ISO 9333

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Wirobond®-Lot – Soldering rods for Wirobond® alloys

Product details				
Composition in % by mass				
Co 61.0 · Cr 28.5 · Si 4.2 · Mo 3.1 · B 1.5 · Fe 1.3 · C				
Characteristics				**REF**
Solidus, liquidus temperature		1125, 1195 °C		
Flux		Minoxyd		52530
Availability	**Contents**	**Presentation**	**Qty**	**REF**
Wirobond® solder (triangular) ▲	4 g	pack	1	52622

ISO 9333

Wiron®-Lot – Soldering rods for all BEGO nickel-chrome alloys

Product details				
Composition in % by mass				
Ni 66.0 · Cr 19.0 · Mo 5.5 · Fe 5.0 · Si 3.5 · B				
Characteristics				**REF**
Solidus, liquidus temperature		1140, 1200 °C		
Flux		Minoxyd		52530
Availability	**Contents**	**Presentation**	**Qty**	**REF**
Wiron® solder (round) ●	4 g	pack	1	52625

ISO 9333

Kobalt-Chrom-Lot – Soldering rods for all cobalt-chrome partial denture alloys

Product details				
Composition in % by mass				
Co 61.0 · Cr 28.5 · Si 4.2 · Mo 3.1 · B 1.5 · Fe 1.3 · C				
Characteristics				**REF**
Solidus, liquidus temperature		1125, 1195 °C		
Flux		Minoxyd		52530
Availability	**Contents**	**Presentation**	**Qty**	**REF**
Cobalt-chrome solder (half-round) ◗	4 g	pack	1	52520

ISO 9333

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Milestones from a company history dating back 125 years

1890
„In the beginning there was gold“ – Dr. h.c. Wilhelm Herbst founds the Bremer Goldschlägerei

1910
Foundation of the dental laboratory

1945
Reconstruction of the company premises after World War II

1953
Market launch of the partial denture alloy WIRONIT®

1976
Opening of the BEGO TRAINING CENTER

1990
Foundation of BEGO Semados GmbH & Co. KG (today: BEGO Implant Systems GmbH & Co. KG)

1993
Market launch of the BEGO Semados® S-Line

1994
Move of the headquarter into the new building in the technology park at the University of Bremen

2000
Foundation of FutureDent GmbH (today: BEGO Medical GmbH)

2001
Launch of the Selective Laser Melting in the dental market

2011
Opening of the new high-tech CAD/CAM production center in Bremen

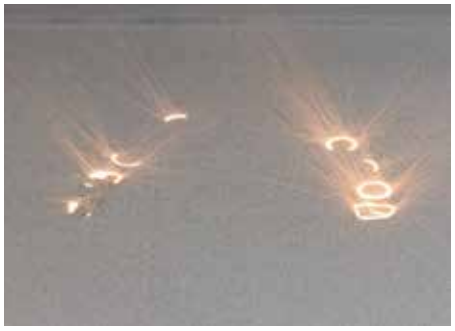
2015
Market launch of the BEGO 3D printing system

Solutions from a single source

Conventional solutions

BEGO Bremer Goldschlägerei GmbH & Co. KG specialises in the development and distribution of precious-metal and non-precious dental alloys as well as devices, materials and services for the production of high-quality restorations.

The product range also includes ceramics for further processing in dental laboratories. Since its foundation, BEGO, now in its fifth generation, has fulfilled its goal of providing dental laboratories with innovative and cost-effective products and services for optimal patient care.



Digital solutions

BEGO Medical GmbH specialises in digital processes and is the CAD/CAM technology pioneer in the dental industry. The company is the inventor and patent holder of the selective laser melting (SLM) procedure for dentistry. All-round process expertise and maximum freedom of choice when it comes to materials ensure unparalleled quality for a very wide range of indications.

In its high-tech production centre at its headquarters in Bremen, BEGO produces frames, abutments, crowns and bridges on the basis of virtual models with state-of-the-art laser and milling technology, currently using four different procedures: SLM, High Speed Cutting (HSC), CAD/Cast® and Rapid Prototyping.

Dental solutions

BEGO Implant Systems GmbH & Co. KG has been developing and manufacturing indication-aligned dental implants and accessories for the implant-based treatment of patients all over the world since 1990.

Thanks to the innovative 3D implant design, modern implantology system abutments, a reliable biomaterial system and functionally optimised guided surgery, the dental implants "Made by BEGO" guarantee planned and reproducible results. They incorporate leading-edge technology at a fair price and offer the perfect combination of safety, durability, aesthetics and reliability.

BEGO TRAINING CENTER

An international and experienced team of trainers provides practical know-how on subjects such as CAD/CAM and classic prosthetic dentistry in courses which are tailored to the various needs of newcomers and old hands alike.

The company's own course concepts form a demanding program for seminars and practical sessions which help interested dental technicians to become even more successful.

Gift idea!
The reference book for your customers

Henning Wulfes
BEGO Germany

The patient-oriented dental practice
Marketing strategies – practice management

The guide for dentists

This guide for dentists, practice staff in managerial positions and those starting up describes the modern patient- and service-oriented dental practice. It provides ideas and tips on how to optimise practice processes.

Strategic positioning as the key to success

Success is not based solely on dental treatments. A fitting marketing philosophy, structured approach and a business concept are all important when establishing and consolidating one's position in this demanding field. Success only comes to those who recognise developments early on, embrace changes and continually develop their expertise.

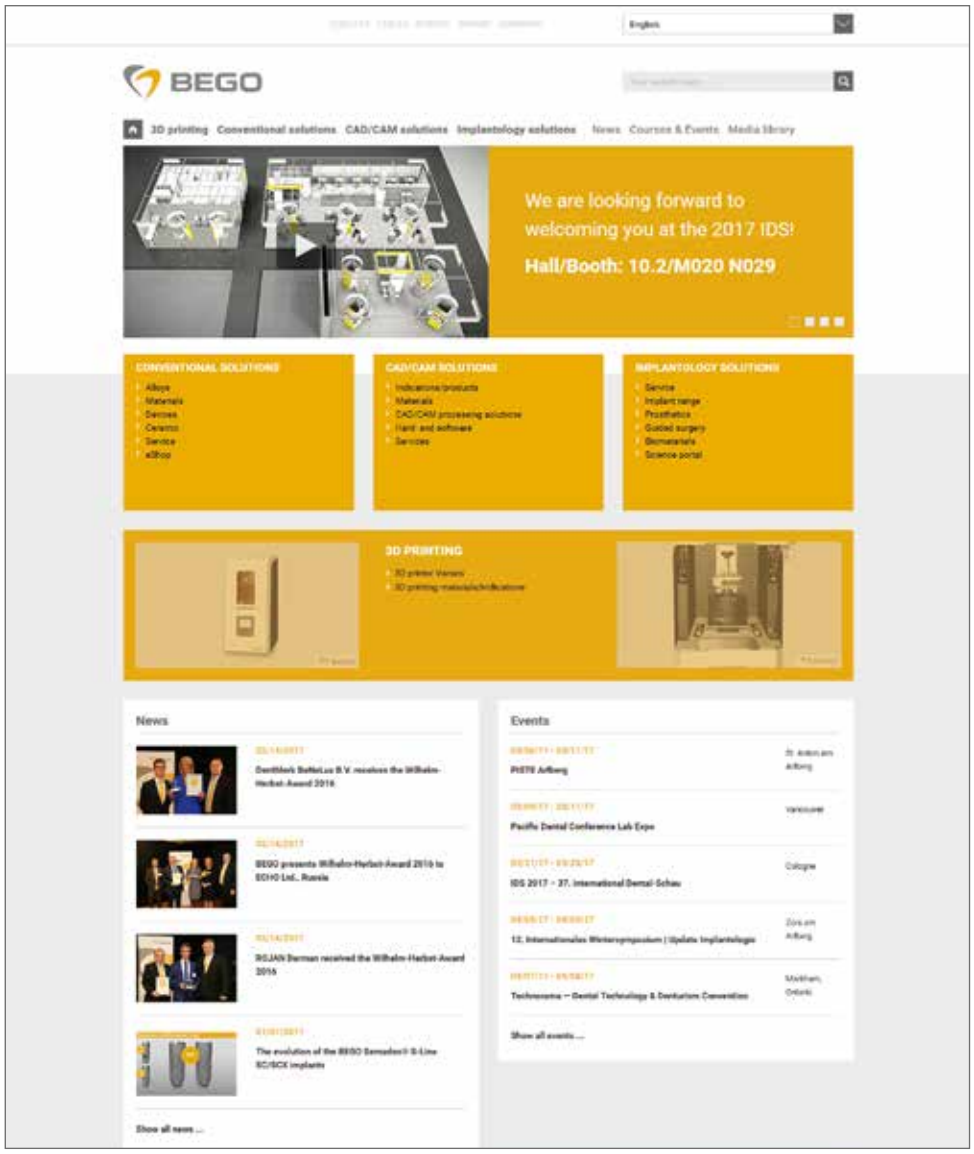
Contents

- Proposals for positioning and structuring
- Prevention-oriented concepts and valuable stimuli for making changes
- Creative suggestions for marketing strategies
- Practical tools for organisation and time management
- Important notes on patient consultations
- Helpful tips on stress-free employee management
- New approaches for enhancing motivation and commitment
- Text modules for customised patient information
- Supplementary check lists and overviews

Product details	
Book	
320 pages • 210 × 260 mm • more than 600 colour illustrations • hardback	
Availability	
German	REF 88910
English	REF 88911
Russian	REF 88912
Spanish	REF 88913

Images and illustrations are examples; colours, symbols, designs and information on the depicted labels and/or packaging may differ from reality.

Further information around our solution variety can be found at www.bego.com



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Guarantee

Whether given verbally, in writing or through practical instructions, our process-related data and recommendations are based upon our own experience and trials and can only be considered as standard values.

Our products are constantly subject to further development. We therefore reserve the right to modify the design and composition at any time.

Status as of: March, 2017

Please indicate the order number corresponding to the articles mentioned in your inquiries. This will help to shorten the processing time.

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