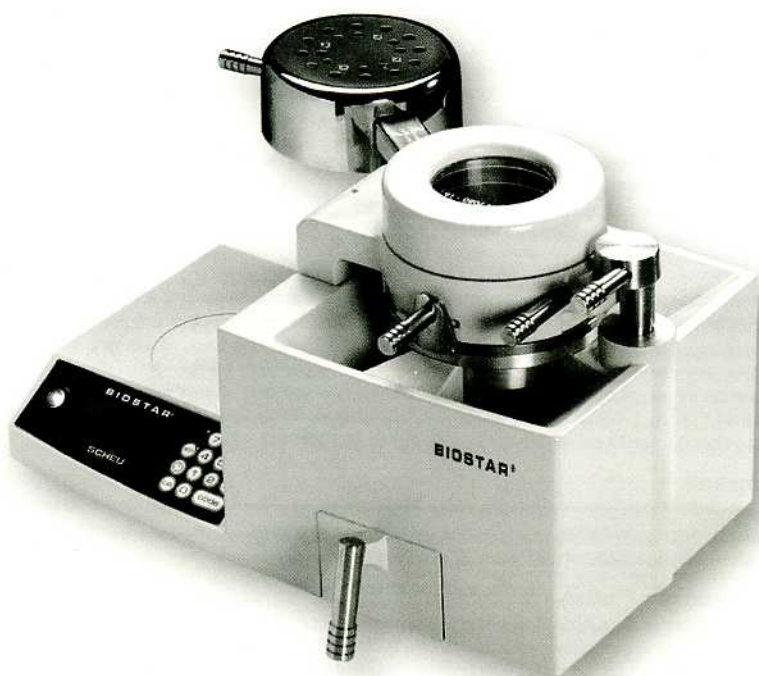


BIOSTAR®



Bedienungsanleitung
Operation Manual

SCHEU
Dental Technology

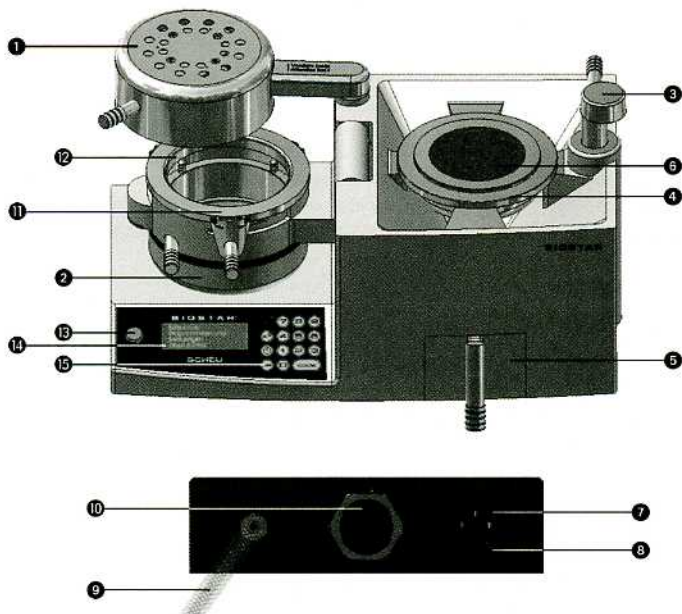
öffnet und der Druckformprozess beginnt. Gleichzeitig startet automatisch die auf dem Display angezeigte Abkühlphase. Bei dünnen Folien bzw. scharfkantigen Modellen kann es zum Abblasen der Luft kommen, was aber keinen Einfluss auf die Abformung hat. Sollte das Tiefziehen nicht während des 10 sec. Zeitintervalls erfolgen, erlischt der Strahler, der Prozess wird abgebrochen und muss mit einer neuen Folie und Programmierung wieder begonnen werden.

Entlüften

Nach Ablauf der Abkühlzeit wird die Taste „air“ gedrückt und nach weiteren 3 sec. zuerst die Verschlusswelle ③ sowie der Verschlussring ① geöffnet. Erst danach wird die Druckkammer ② wieder auf die linke Seite geschwenkt, so dass das Modell im Granulat bzw. auf der Modellstützplatte liegen bleibt.

Service/Wartung

Grundsätzlich ist das BIOSTAR®-Gerät wartungsfrei. Bitte kontrollieren Sie lediglich regelmäßig den Luftschlauch inkl. Filterelement auf Ablagerungen bzw. Feuchtigkeit. Bei Bedarf kann der Filter getauscht werden. Modelltopf ④ mit Abluftlöchern und Modellstützplatte ⑥ können mit Luftdüse oder Dampfstrahler gereinigt werden. Die Reflexionsflächen in der Druckkammer ② durch Verkanten entnommen werden. Die Dichtflächen, den seitlichen Dichttring sowie die 4 Nieten und Federn reinigen und einfetten. Den Ausgleichsring wieder so auf die Federn und Nieten setzen, dass der Dichtring nach oben zeigt und die gesamte Einheit frei beweglich ist.



Mounting

⚠ Before using the BIOSTAR® it is important that you understand and follow the instructions.

When placing the BIOSTAR® in its working environment, make sure there is sufficient space for the infrared heater ①, the pressure chamber ② and the locking handle ③ to operate. The BIOSTAR® should be placed in a clean environment which is free from dust and plaster. Do not place the machine near to a steam cleaner or sandblasting unit.

⚠ Infrared heater and heater arm reach high temperatures during operation. Only touch the handles! Avoid flammable material coming close to the infrared heater.

When placing the pellets into the pellet receiver ⑤ respectively model cup ④, make sure that the rims of the model cup are clean and free from pellets. When using the model platform ⑥, make sure that the upper edges of the model cup are free from pellets. The bearing on top and under the model cup have to be free from pellets as well.

⚠ When embedding, only use the stainless steel pellets provided with the machine. Other material might lead to serious damage of the pneumatic part and air outlet. If lighter weight materials are used these may ingest into the air stream during pressurising and evacuation. Only stainless steel pellets as supplied by Scheu have the right properties. Only use the original power cable and air tube. The compressed air has to be free of oil and moisture. Minimum working pressure of the BIOSTAR® is 6 bar/87 psi. Improper use or disregard of these instructions may lead to loss of warranty claims.

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Main connection

Connect the BIOSTAR® machine to 100/115/230-V-network by plugging in the original power cable on the back of the machine 7, two fuses are built in to protect the machine from high voltage. To exchange the fuses please press the little clip below the connector 8 and take out the fuse.

Compressed air connection

A 20 bar tube 9 with filter element is fixed to the back of the machine and should not be exchanged. Connect the BIOSTAR® machine to the air pressure system. Use the 20 bar tube and optionally a quick connect coupling. The working pressure is set up at 6 bar/87 psi and should not be changed as it is calibrated to achieve the best pressure moulding results. The active pressure is permanently shown in the display. However, if you wish to lower the working pressure, just adjust it by using the pressure regulator 10 on the back of the machine. Before turning the regulator, pull to release it. Adjust the pressure by turning the regulator (↺ ↻ ↷) and push it in afterwards. If the pressure exceeds 6,5 bar/94 psi the security valve will be set into action.

Switching on

Press the ON/OFF button 11, allow the machine 10 seconds to set itself up before using. Now the display shows the standard dialogue which is the starting point for any pressure moulding operation. Programming is done through display 14 and key pad 15.

Positioning of blanks

All round blanks and foils with a diameter of 125 mm and a thickness of 0,1 to 5 mm can be pressed in the BIOSTAR®. Open the pressure chamber 2 by swivelling on the left side, take off the locking ring 11 by turning it in 5 o'clock position, place the foil or blank directly on the o-ring. Put on the locking ring, so that the bayonet clamps slip under the bevel of the locking device of the chamber. Tighten by turning clockwise into 6 o'clock position.

Model preparation

When working with hard or hard elastic foils, the models are placed into the model cup 4 which is completely filled with stainless steel pellets. When working with soft elastic foils, the models can be placed on the model platform 6. In both cases, the model should be placed with the incisors facing towards the locking handle 3 to ensure equal thickness of the foil or blank between the quadrants.

Programming

Our pressure moulding materials have a 3 digit code in which all necessary information on temperature, heating time and cooling time is programmed. Choose your material, press the button "code", program the digits and confirm by pressing the button "code" again.

Heating

After programming, directly swivel the infrared heater 1 over the foil. The temperature is regulated automatically by a thermo element. The colour of the heater might vary from bright to dark.

Pressurizing

Before the end of the heating cycle is reached, an audible beeping sound is heard which lasts for five seconds. After five seconds, a continuous beeping sound is heard for a further five seconds with the demand for closing the pressure chamber 2 with the locking handle 3. During these five seconds the infrared heater is returned to its rest position. The pressure chamber is brought over the model and locked into place by turning the locking handle 180° degrees. Automatically the magnetic valve opens, the pressure chamber fills with air and the moulding process begins. You will notice that the cooling time begins as indicated on the display. You may experience some air leakage when working with thin foils, this is normal and will not affect the final result of the moulding. If the pressure moulding is not started within ten seconds, the infrared heater will switch off and the whole process has to be started again with a new foil. Remember also to reprogram the BIOSTAR® with the correct code.

Depressurizing

After cooling time has elapsed, press the button "air" and after another 3 seconds the locking handle 3 and the locking ring 11 can be opened. After this, the pressure chamber 2 is swivelled to the left hand side, so that the model remains in the pellets or on the model platform.

Maintenance

The BIOSTAR® machine is maintenance free. However, the air tube including the filter element should be examined regularly. If moisture or debris is released, the filter must be replaced. The model cup 4 with air holes and model platform 6 can be cleaned with an air gun. The reflecting part of the pressure chamber should be cleaned regularly to obtain the best heating results. For cleaning remove the aluminium adjusting ring 12 from the pressure chamber 2 completely. This will allow you to lightly grease the sealing surfaces. The sealing ring and the four trivets and springs should be cleaned and lightly greased also. Place the adjusting ring back on the trivets and springs ensuring that the sealing ring comes to the top and that the whole unit is movable.

Indikationstabelle

Materialempfehlung / Recommended Material

| | | |
|---|---|---------------------|
| 1. Adapterschiene | IMPRELON® „S“ | 3,0 mm |
| 2. Ätzmaske | COPYPLAST® | 1,0 mm |
| 3. Aufbisschiene, adjustiert | DURAN® | 1,5 mm |
| 4. Bissnahme- und Anprobeplatte | IMPRELON® weiß / white | 2,0 / 3,0 mm |
| 5. Bleichschiene | BIOPLAST® bleach | 1,0 mm |
| | COPYPLAST® ohne/mit unterschiedl. Platzhaltern / without/with different spacer | 1,0 mm |
| 6. Bracket-Transfermaske | COPYPLAST® | 0,5 mm |
| 7. CMD-Schiene, adjustiert | IMPRELON® „S“ | 1,0 / 2,0 mm |
| | DURASOFT® | 1,8 mm |
| | DURAN® | 1,5 mm |
| 8. Dublierformen | BIOPLAST® (Gips / plaster) | 2,0 mm |
| | COPYPLAST® (Kunststoff / resin) | 2,0 mm |
| 9. Gießmasken für provisorische Kronen und Brücken | COPYPLAST® | 0,5 / 1,0 mm |
| 10. Implantatschiene (Röntgen/Bohrschablone) | DURAN® | 2,0 / 3,0 mm |
| 11. Immediatprothese | BIOCRYL® „C“ rosa / rose | 2,0 mm |
| 12. Individuelle Löffel | IMPRELON® klar / clear | 2,0 / 3,0 mm |
| | IMPRELON® natur / nature | 3,0 mm |
| 13. Invisible Retainer | IMPRELON® „S“ | 0,5 / 0,75 / 1,0 mm |
| | DURAN® | 0,75 / 1,0 mm |
| | COPYPLAST® C | 1,0 mm |
| 14. Isolierfolie | ISOFOLAN® | 0,10 mm |
| 15. Käppchen | HARDCAST® | 0,4 / 0,6 / 0,8 mm |
| | COPYPLAST® | 0,5 / 0,6 mm |
| 16. Kfo-Platte | BIOCRYL® „C“ klar, farbig / clear, colored | 1,5–3,0 mm |
| | BIOCRYL® „M“ | 2,0 mm |
| 17. Kieferbruchschiene | BIOCRYL® „C“ | 2,0 mm |
| | IMPRELON® „S“ | 2,0 mm |
| 18. Kinnkappe | IMPRELON® weiß mit / white with | 2,0 mm |
| | BIOPLAST® | 2,0 mm |
| 19. Knirscherschiene | IMPRELON® „S“ | 1,5 / 2,0 mm |
| | DURAN® | 1,5–3,0 mm |
| | DURASOFT® | 1,8 / (2,5) mm |
| 20. Modellkaschierung | Kaschierfolie / Coating Foil | 0,15 mm |
| 21. Mundschutz | BIOPLAST® klar, farbig / clear, colored | 1,0–5,0 mm |
| 22. Positioner | BIOPLAST® | 1,0–5,0 mm |
| 23. Prothesenbasen | BIOCRYL® „C“ rosa / rose | 2,0 mm |
| 24. prov. Schienen | DURAN® | 0,5 / 1,0 mm |
| 25. Retainer | BIOCRYL® „C“ klar, farbig / clear, colored | 1,5–3,0 mm |
| | BIOCRYL® „M“ | 2,0 mm |
| 26. Retentionsschiene | IMPRELON® „S“ | 3,0 mm |
| 27. Schnarcherschiene (s. a. Zusatzinfo) | DURAN® | 2,0 mm |
| | DURASOFT® | 1,8 / 2,5 mm |
| 28. Set-Up Korrekturschiene | COPYPLAST® C | 1,0 mm |
| 29. Skinverpackung | Kaschierfolie und Blisterkarton / Coating foil and blister carton | 0,15 mm |
| 30. Stripkrone | DURAN® | 0,5 / 1,0 mm |
| 31. Unterziehfolie | Platzhalterfolie / Space Maintainer Foil | 0,1 mm |
| 32. Verbandplatte | DURAN® | 1,0 mm |

Unsere Folien sind im Jahr 1995 an der Universität Heidelberg zellbiologisch nach DIN 13930 (AMES-Test) untersucht worden. nicht toxisch sind, keine Schleimhautreizung verursachen, kein mutagenes Potenzial besitzen und somit biologisch ausgezeichnet

In January 1995, our foils have been cell-biologically tested according to DIN 13930 at the University of Heidelberg. The results of irritations of the gingiva, have no mutagenic potential and are therefore biologically well accepted.

Application Chart

Adapter Splint
Etching Mask
Adjusted Splint
Bite registration tray
Bleaching Tray

Bracket Transfer Mask
TMJ Splint, adjusted

Model Duplications

Moulds for Temporary Crowns and Bridges
Template for implants (Drilling/X-Ray)
Immediate Dentures
Custom Impression Trays

Invisible Retainer

Insulating Foil
Coping

Orthodontic Plates

Jaw Fracture Splint

Chin Caps

Bruxism Splints

Coating Foil for models
Mouthguard
Positioner
Denture Base
Temporary Splints
Retainer

Retaining Splints

Snoring Splint (pls. see additional information)

Set-Up Splint
Skin Packaging
Strip Crowns
Space Maintainer Foil
Medical Tray

Die Ergebnisse zeigen eindeutig, dass unsere Folien
et verträglich sind.
early state, that our foils are non-toxic, do not cause

SCHEU-DENTAL GmbH
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EG - Konformitätserklärung

Name und Anschrift des Herstellers:
Scheu-Dental GmbH
Am Burgberg 20
58642 Iserlohn
Telefon: 02374 / 9288-0
Telefax: 02374 / 9288-90

Zuständiger Technischer Dienst:
Gerät für alle Anwendungen in der dentalen Technikbereich

Titel:
BIOSTAR®

| | |
|---------------------|-----------------|
| REF 3125/1 230V (4) | REF 3115/1 230V |
| REF 3125/2 230V (4) | REF 3115/2 115V |
| REF 3130/1 115V | REF 3115/3 100V |

Technische Daten:

| | |
|------------------------|-----------------------|
| Spannung | 230 V / 115 V / 100 V |
| Leistung | 850 W |
| Abmessungen | 460 x 250 x 260 mm |
| L x B x H | 162 x 152 x 78 mm |
| Brutto / Netto-Gewicht | 16,2 / 14,9 kg |

In Übereinstimmung mit den Bestimmungen der folgenden Richtlinien:
EMV-Richtlinie 89/321/EEG
EMV-Richtlinie 94/100/EG

Ausstellungsort, Unterschrift, und Datum:
Christian Scheu, Geschäftsführer der Firma Scheu-Dental GmbH
Iserlohn, den 01.04.2006

Christian Scheu

EU - Declaration of Conformity

Name und Anschrift des Herstellers:
Scheu-Dental GmbH
Am Burgberg 20
58642 Iserlohn
Telefon: 02374 / 9288-0
Telefax: 02374 / 9288-90

Titel:
Machine for all applications in the dental Pressure Moulding Technique

Titel:
BIOSTAR®

| | |
|---------------------|-----------------|
| REF 3125/1 230V (4) | REF 3115/1 230V |
| REF 3125/2 230V (4) | REF 3115/2 115V |
| REF 3130/1 115V | REF 3115/3 100V |

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Low Voltage Guide Line 73/23/EEG
EMV-Guide Line 94/100/EG

Christian Scheu, managing director of SCHEU-DENTAL GmbH
Iserlohn, 01.04.2006

Christian Scheu

Technische Daten / Technical data

Spannung / AC 230 V, 115 V, 100 V / 50/60Hz
Leistung / Power 850 W
B x T x H / W x D x H 460 x 250 x 260 mm
Gewicht / Weight 16 kg
Druck / Pressure max. 6 bar / 87 psi

SCHEU

Dental Technology