

BIOSTAR®



Bedienungsanleitung Operation Manual

SCHEU
Dental Technology

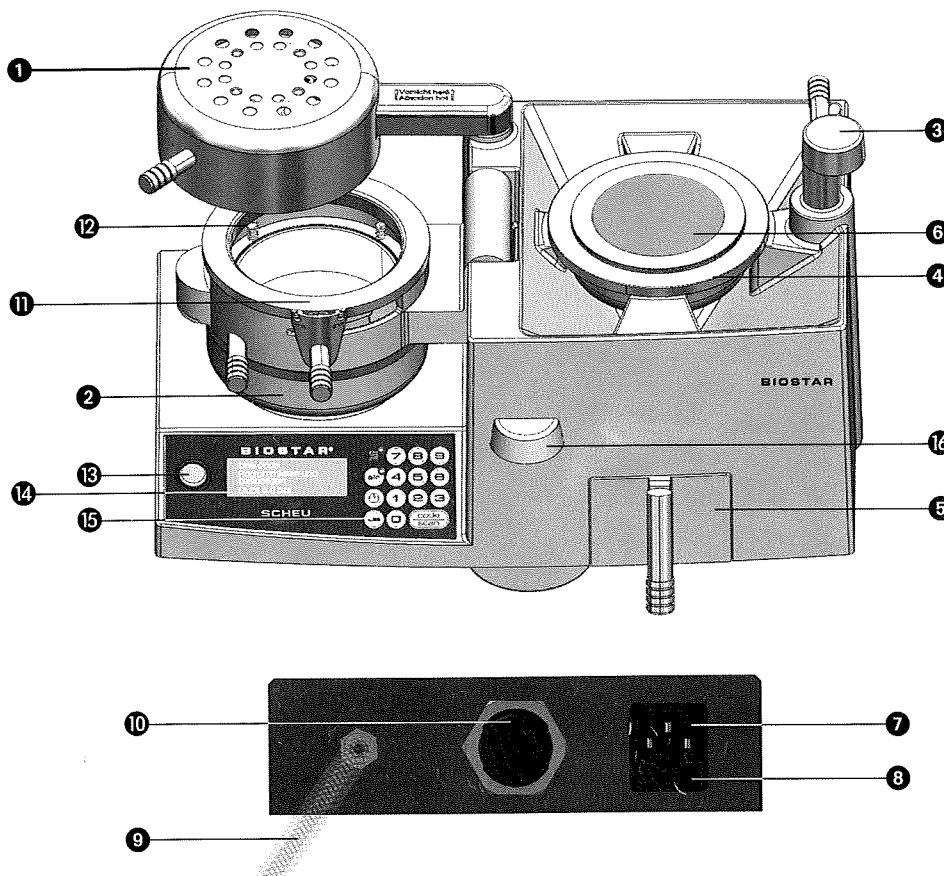
öffnet und der Druckformprozess beginnt. Gleichzeitig startet automatisch die auf dem Display angezeigte Abkühlphase. Bei dünnen Folien bzw. scharfkantigen Modellen kann es zum Abblasen der Luft kommen, was aber keinen Einfluss auf die Abformung hat. Sollte das Tiefziehen nicht während des 10 sec. Zeitintervalls 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 **11** 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 Luftpistole oder Dampfstrahler gereinigt werden. Die Reflexionsflächen in der Druckkammer sollten für optimales Erwärmen der Folien sauber sein. Zur Reinigung kann der Aluminium-Ausgleichsring **12** in der Druckkammer **2** durch Verkranten entnommen werden. Die Dichtflächen, den seitlichen Dichtring 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.

English

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 ⑬, 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.

Scanning/Programming

Our pressure moulding materials have a 3 digit code in which all necessary information on temperature, heating time and cooling time is programmed. This code is printed as digit and also as barcode on each pressure moulding material except ISOFOLAN®. Choose your material, press the button "code". The scanner ⑯ is activated. Present the barcode of the chosen material to the scanner until you hear a beep. Alternatively the code can be programmed manually. Program the digits and confirm by pressing the button "code" again.

Heating

After scanning/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. CLEAR-ALIGNER	DURAN®	0,5 mm
		0,625 mm
		0,75 mm
8. CMD-Schiene, adjustiert	IMPRELON® „S“	1,0 / 2,0 mm
	DURASOFT®	1,8 mm
	DURAN®	1,5 mm
9. Dublierformen	BIOPLAST® (Gips / plaster)	2,0 mm
	COPYPLAST® (Kunststoff / resin)	2,0 mm
10. Gießmasken für provisorische Kronen und Brücken	COPYPLAST®	0,5 / 1,0 mm
11. Implantatschiene	DURAN®	2,0 / 3,0 mm
12. Immediatprothese	BIOCRYL® „C“ rosa / rose	2,0 mm
13. Individuelle Löffel	IMPRELON® klar / clear	2,0 / 3,0 mm
	IMPRELON® natur / nature	3,0 mm
14. Invisible Retainer	IMPRELON® „S“	0,5 / 0,75 / 1,0 mm
	DURAN®	0,75 / 1,0 mm
	COPYPLAST® C	1,0 mm
15. Isolierfolie	ISOFOLAN®	0,10 mm
16. Kappchen	HARDCAST®	0,4 / 0,6 / 0,8 mm
	COPYPLAST®	0,5 / 0,6 mm
17. Kfo-Platte	BIOCRYL® „C“ klar, farbig / clear, colored	1,5–3,0 mm
	BIOCRYL® „M“	2,0 mm
18. Kieferbruchschiene	BIOCRYL® „C“	2,0 mm
	IMPRELON® „S“	2,0 mm
19. Kinnkappe	IMPRELON® weiß mit / white with	2,0 mm
	BIOPLAST®	2,0 mm
20. Knirscherschiene	IMPRELON® „S“	1,5 / 2,0 mm
	DURAN®	1,5–3,0 mm
	DURASOFT®	1,8 / (2,5) mm
21. Modellkaschierung	Kaschierfolie / Coating Foil	0,15 mm
22. Mundschutz	BIOPLAST® klar, farbig / clear, colored	1,0–5,0 mm
23. Positioner	BIOPLAST®	1,0–5,0 mm
24. Prothesenbasen	BIOCRYL® „C“ rosa / rose	2,0 mm
25. prov. Schienen	DURAN®	0,5 / 1,0 mm
26. Retainer	BIOCRYL® „C“ klar, farbig / clear, colored	1,5–3,0 mm
	BIOCRYL® „M“	2,0 mm
27. Retentionsschiene	IMPRELON® „S“	3,0 mm
28. Schnarcherschiene (IST®, TAP®)	DURAN®	2,0 mm
	DURASOFT®	1,8 / 2,5 mm
29. Set-Up Korrekturschiene	COPYPLAST® C	1,0 mm
30. Skinverpackung	Kaschierfolie und Blisterkarton / Coating foil and blister carton	0,15 mm
31. Stripkrone	DURAN®	0,5 / 1,0 mm
32. 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 sind. In January 1995, our foils have been cell-biologically tested according to DIN 13930 at the University of Heidelberg. The results of the tests show that the foils do not irritate 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

CLEAR-ALIGNER

TMJ Splint, adjusted

Model Duplications

Moulds for Temporary Crowns and Bridges

Template for implants

Immediate Dentures

Custom Impression Trays

Invisible Retainer

Insulating Foil

Copings

Orthodontic Plates

Jaw Fracture Splint

Chin Caps

Bruxism Splints

Coating Foil for models

Mouthguard

Positioner

Denture Base

Temporary Splints

Retainer

Retaining Splints

Snoring Splint (IST®, TAP®)

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

EG - Konformitätserklärung

Name und Anschrift des Herstellers:

Scheu-Dental GmbH
Am Burgberg 20
58642 Iserlohn
Telefon: 02374 / 9288-0
Telefax: 02374 / 9288-50

Ich erkläre hiermit, dass das

Gerät für alle Anwendungen in der dentalen Tiefziehtechnik

Typ:

BIOSTAR®

REF 3125/1 230V (d)	REF 3110/1 230V
REF 3125/2 230V (e)	REF 3111/1 115V
REF 3126/1 115V	REF 3112/1 100V
REF 3128/1 100V	

Technische Daten

230 / 115 / 100 V	Spannung	230 / 115 / 100 V
500 W	Leistung	850 W
1 - 5 bar	Arbeitsdruck	0,5 - 6,0 bar
500 x 300 x 350 mm	L x B x H	460 x 250 x 260 mm
22,0 / 16,5 kg	Brutto / Netto-Gewicht	19,2 / 14,5 kg

den einschlägigen Bestimmungen der nachstehenden Richtlinien entspricht:

Niederspannungsrichtlinie 73 / 23 / EWG
EMV-Richtlinie 04 / 108 / EG

Angaben zum Unterzeichner, der Erklärung

Christian Scheu, Geschäftsführer der Firma Scheu-Dental GmbH

Iserlohn, den 01.04.2006


Christian Scheu


EU - Declaration of Conformity

Name and address of manufacturer:

Scheu-Dental GmbH
Am Burgberg 20
58642 Iserlohn
Telefon: 02374 / 9288-0
Telefax: 02374 / 9288-50

This is to certify that this machine:

Machine for all application in the dental Pressure Moulding Technique

Type:

BIOSTAR®

REF 3125/1 230V (d)	REF 3110/1 230V
REF 3125/2 230V (e)	REF 3111/1 115V
REF 3126/1 115V	REF 3112/1 100V
REF 3128/1 100V	

Technical Information:

230 / 115 / 100 V	Voltage	230 / 115 / 100 V
500 W	Power	850 W
1 - 5 bar	Working Pressure	0,5 - 6,0 bar
500 x 300 x 350 mm	L x W x H	460 x 250 x 260 mm
22,0 / 16,5 kg	Gross / Net Weight	19,2 / 14,5 kg

is in accordance with the following guide line:

Low Voltage Guide Line 73 / 23 / EWG
EMV-Guide Line 04 / 108 / 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

BxHxT / WxHxD 450 x 230 x 260 mm

Gewicht / Weight 14 kg

Druck / Pressure max. 6 bar / 87 psi


Dental Technology

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