





# HELINUT MEDIZINTECHN

## Content

# ZEPF IK GMBH

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## Company Profile

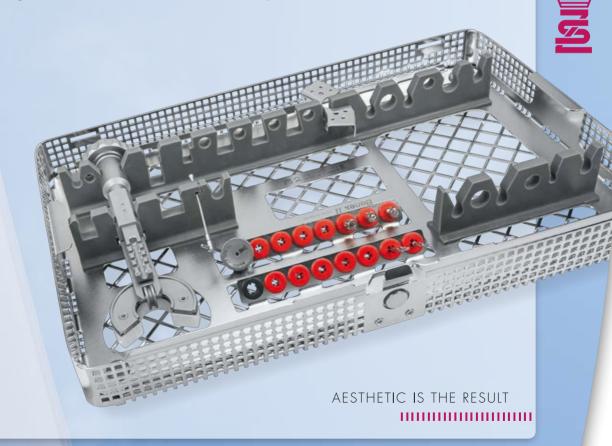


Professor Ferdinand Sauerbruch became famous for a special surgical technique that he had developed. As a surgeon, he had rather clear-cut ideas regarding the characteristics and quality of the surgical instruments he used. It was not easy to meet his high standards.

The well-known surgeon turned to Zepf, an instrument manufacturer in Seitingen that back then was still a rather young company, to produce the surgical instruments he wanted, as well as special prototype arm and leg prostheses.

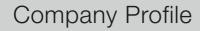
Isidor Zepf, who had founded the company in 1921, and his wife Rosa, who was surely one of the first female surgical instrument makers, were able to produce the Berlin professor's products the way he wanted. Their - back in those days - somewhat unusual collaboration built the foundation for Zepf's successful development effort and demonstrated what is even today Zepf's hallmark: rapidly implementing innovations in the field of medical instruments, working in collaboration with well-known physicians and developing these innovations into exemplary solutions. What had been a manufacturing plant with modest beginnings began to grow due to the growing demand for medical instruments.

Helmut Zepf senior and Helmut Zepf junior developed the company in the following decades to a leading manufacturer of dental instruments in Germany.

















Today we are still a family company, managed in the fourth generation by Patrick Zepf. Our decisions are still based on the strict maintaining of basic standards and Zepf's quality criteria and high innovation. A family needs a home. The home of the Zepf family of course is Seitingen-Oberflacht where we reside since 1921.



Here we can count on the extensive technical know-how of our employees, many of them proving their loyalty to us for decades, since it is well known that this particular region of Baden-Württemberg is a hotbed of inventiveness and creativity. Last, but not least, Tuttlingen and the surrounding area has managed to remain the center of the world's medical-equipment industry, thanks to its abundance of well-trained skilled workers. It is companies like Helmut Zepf, to mention just one example, that have been standing for that reputation in the field for more than three-quarters of a century.

Consistent with our corporate philosophy, we see ourselves as driver of innovation. In the footsteps of others we cannot improve.

We consciously take into account that a development is allowed to fail.

Loyal customers who appreciate our innovations are our reward.

Thank you for your confidence!





K2019-

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## 02 02-02 Diagnostic

PIOUR

These handles are light, manufactured from top-quality plastic with a satin surface finish, available in ten colors. Suited for all threaded tips, such as dental probes, PA-probes, brush holders, mirrors, etc. Desinfectable and sterilizable by using any standard procedure.

See page 03-02 and 03-03 for all ЫОПН Handles available!



Handle colors of
HELMUT ZEPF

IONIK Universal
Handles:



See page **03-02** and **03-03** for the article numbers of all Handles available.











#### Mouth Mirrors

Due to the standardized thread dimensions, all mirrors available from **HELMUT ZEPF** are compatible with any handle supplied by **HELMUT ZEPF** and can of course be desinfected and sterilized by all usual methods. For fitting handles, please refer to pages **02-03**, **02-05** and for the fitting **ZEPF** Handle, please refer to page **03-03**.

#### Lipcare Mouth Mirror acc. to Dr. Preusse

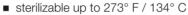
The Lipcare Mouth Mirror / Retractor Combination is distinguished by the following features:

- optimal ergonomic working for the user
- patient-friendly, atraumatic, extensive retraction of the cheek

24.062.24 QTY 5

24.062.24. QTY 1

- Titanium Mirror, Ø 24 mm, for best visibility
- possibility of preparation with all usual cleaning methods













#### Back Surface

These mirrors have their reflective coatings on their rear surfaces.



#### Front Surface

These mirrors have their reflective coating on their front surface, yielding undistorted imaging with no disturbing double images. zepf-dental.com

Diagnostic 02-05



Retractor acc. to Hilger

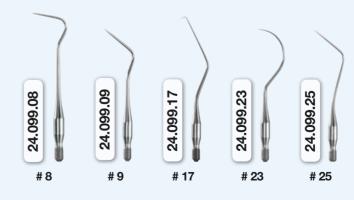
This retractor's ergonomically curved surface allows retracting cheeks and tongue under all kinds of working conditions and is also very comfortable for patients, thanks to its convex rear surface and rounded edges.

#### Interchangeable Probe Tips

**Probe Tips**, interchangeable. Compatible with any standard handle with an M2.5 metric thread.

The two **ZEPF** Safety Keys to exchange tool ends are illustrated on page **03-05**.

For fitting handles, please refer to pages **02-03**, **02-05** and for the **ZEPF** Handle, please refer to page **03-03**.



+49(0)7464/98880

## **ZEPF** Retractor and Mouth Mirror acc. to Dentist Beck

The **ZEPF** GOOK Retractor and Mouth Mirror is available in two sizes, featuring a heart-shaped, ergonomic and highly polished design.

The instrument is available in size 24 and 27 mm.

#### It is universally applicable as:

- Mouth mirror, cheek or tongue retractor, mucoperiosteal flap retractor.
- Its innovative heart shape allows ergonomic adaption in all quadrants.
- Due to its reflective surface, the retractor allows an optimal illumination of the surgical site.
- The large contact surfaces make the retractor very patient-friendly.











### 24.062.31

**ZEPF IONIH** Retractor and

Mouth Mirror, size 1, 24 mm,

PEEK, single-ended,

signal orange

**ZEPF GOODE** Universal Handle,

**ZEPF** Ы○○IH Retractor and Mouth Mirror, size 2, 27 mm, **ZEPF** Ы○○IH Universal Handle, PEEK, single-ended, signal purple







#### **ZEPF** Photography and Cheek Retractor, in the Onyx Version or stainless steel

**HELMUT ZEPF** Cheek Retractors are frequently used in intraoral photography, in extensive cheek retraction, in dental diagnostics and in surgery.

Conventional retractors are also available in plastic material. However, depending on the used plastic, these are not always entirely harmless when being prepared in the hygiene chain. Our retractors are made of stainless medical steel and fulfill all the requirements of the RKI guidelines.

The ergonomic design of the retractors guarantees an optimal handling and is well accepted by patients.



#### **ZEPF** Dental Tweezers

All **HELMUT ZEPF** Dental Tweezers have guide pins that prevent their tips from crossing.

The broader version with its shorter tips allow an application with more pressure compared to common tweezers.









### **ZEPF** Ergonomic Dental Tweezers

Our extra comfortable **HELMUT ZEPF** Ergonomic Dental Tweezers are pleasant to hold and have been specially designed for use in extended, otherwise tiring, applications.

The broader version with its shorter tips allow an application with more pressure compared to common tweezers.







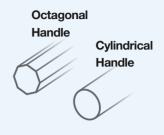


**22.024.04** London College Cotton & Dressing Pliers, modif., 15 cm, approx. 20°

#### **ZEPF** Medical Probes

Those **HELMUT ZEPF** Probes shown in figures **8**, **9**, **17** and **23** are available in octagonal and cylindrical versions, both of which are pleasantly lightweight. Our ergonomically designed octagonal handles are comfortable to hold, and provide precision fingertip control.

Their thin, unbreakable, yet flexible tips manufactured from special alloy steel have an extremely long service life.





**24.112.05** # 5, cylindrical handle

24.124.06

Probe, Cow Horn, cylindrical handle



#### **ZEPF** Periodontal Probes

The perio-diagnostics should be done regularly to have a permanent record to make sure that gingival and especially periodontal inflammations are diagnosed at an early stage.

The benefit for the patient is that either the periodontal health can be confirmed or infection is detected early. Like that suitable dental treatments can be initiated to cure the infection or to stop the progression. With the new Contrast PA Probe Inserts an even easier visualisation is guaranteed during the examination.

The graduation (3 mm) of the probe is visible at the deepest point of the sulcus of all measuring points. Calculus or defective restoration margins cannot be detected, the gingiva is healthy, no bleeding after (careful) probing = no treatment necessary, further preventive care.

Deeper measurements (> 3 mm) indicate a gingivitis. According to the depth further evaluation and documentation must take place according to the rules of the PSI.

See page 03-08 for article numbers of the different **ZEPF** Contrast Probes.







Ы○○IH Universal Handle made of PEEK high-tech plastic material – guarantees an ideal power transmission with formerly unknown sensitivity. The handle is available in 10 different, fresh basic colors.





All *QUICK* **FIX Handles** have a metric thread M4 x 0.5 and are therefore compatible with the most common exchangeable inserts.



**Ы○○IH ID Plug** for an individual color coding of the handle series.

Material: PEEK high-tech plastic.

Optional, the handle is available with a different colored ID Plug.
When placing an order of ID PluG Handles please indicate the desired ID-Plug separately according to the listing below.





Universal Handle QUICKFIX, double-ended

26.193.01

26.193.03

26.193.04

26.193.05

26.193.06 26.193.07

26.193.08

26.193.09

26.193.10

## PIOUIK

### **Universal Handle** single-ended

QUICKFIX for all common curette and scaler tips including 1 end cap



26.193.12

26.193.13

26.193.14

26.193.15

26.193.16

26.193.17

26.193.18

26.193.19

26.193.20

## FIOUR

#### **Reduction Insert**

to reduce thread from M4 x 0.5 to M2.5, which enables the use of a double-ended handle for probes and mouth mirrors.

#### FIOUIK

#### **Universal Handle** double-ended

for exchangeable tips, M2.5, incl. 2 reduction inserts

#### 26.194.11

26.194.12

26.194.13

26.194.14

26.194.15

26.194.16

26.194.17

26.194.18

26.194.19

26.194.20

#### PIOUIK

#### **Universal Handle** single-ended for

exchangeable inserts M2.5, for all common probes and mouth mirrors including 1 end cap and 1 reduction insert

#### 26.194.01

26.194.02

26.194.03

26.194.04

26.194.05

26.194.06

26.194.07

26.194.08

26.194.09

26.194.10

Ы○○IH End Cap (Length 25 mm) for using the handles as single-ended handle variants.



Comparison of the handles with exchangeable working tips M4 x 0.5 mm





### **ZEPF** Safety Keys with and without side wings

24.755.03

The Safety Key holds the tips firmly in place. The side wings (only 24.755.02) protect from potential injuries due to the extremly sharp cutting edges of the tips.



tips firmly in place. The side wings protect from potential injuries due to the extremly sharp cutting

edges of the tips.

#### Gracey M5 Prophylaxis Set in Z'SHAPE or SIONIK handle with ZEPF nanapau\* coating

Small Instrument Set optimally compiled for Deep Scaling, consisting of M5 Gracey Curettes figures 1/2, 7/8, 11/12, 13/14 and a Sickle Scaler # 204S for application in all quadrants.



in ZSHAPE or SOOK handle with ZEPF DODG coating

For the Gracey M5 Prophylaxis Set.

Sickle Scaler # 204 SD and

Sickle Curette (Molar Scaler) # M 23A

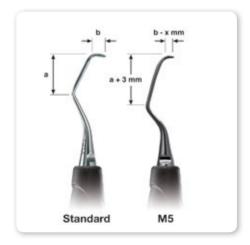




**ZEPF** Prophylaxis Set 'M5 Deep Scaling' in **Z⁻SHAPE** RELAX handle, complete with nanopal coating

#### 24.990.55OX

**ZEPF** Prophylaxis Set 'M5 Deep Scaling' in **ZEPF** Ы○○○○○○○○○○ handle, inserts with nanapac\* coating



**HELMUT ZEPF** M5 Curettes have a 1st shaft which is about 3 mm longer. The sharpened instrument tip is shortened as to allow a special subgingival curettage for tight and deep pockets as well as narrow root surfaces.



#### Contrast PA Probe Inserts

The new **ZEPF** Contrast PA Probes are made of plastic material and have a flexible working tip which adapts optimally to the anatomy of the pocket depth when measuring.

Colorstable, black markings on the white basic material guarantee a very good contrast for reading.

The sterilizable, exchangeable tips are available in different common graduations.

They are suited to determine the parodontal status and especially to be used on implants. Scratching of implant surfaces is avoided with these probes.

The tips are reusable until they bend, the color fades or the graduation is not readable any more.





#### 24.451.00 # 1

graduation 3/6/8/11 mm M4 x 0.5 mm, PU 12 pieces



#### 24.451.01 # CPG 12

graduation 3/6/9/12 mm M4 x 0.5 mm, PU 12 pieces



#### 24.451.02 # CPNG 22

graduation 2/4/6/8/10/12 mm M4 x 0.5 mm, PU 12 pieces



#### 24.451.03 # PCPG 11.5

graduation 3.5/5.5/8.5/11.5 mm M4 x 0.5 mm, PU 12 pieces



#### 24.451.06 # CNC

graduation 1-15 in mm steps, North Carolina M4 x 0.5 mm, PU 12 pieces









#### 24.451.02 # CPNG 22

Periodontal Probe exchangeable graduation 2/4/6/8/10/12 mm M4 x 0.5 mm, PU 12 pieces

#### **ЫО**∩ **Universal Handle single-ended**

QUICKFIX, lightred-magenta, incl. 1 end cap The handle is available in 10 different colors. See page 03-02 and 03-03 for the article numbers of all **ЫОПІ**Н Handles available.



#### 24.455.06

**CNC North Carolina** 

Periodontal Probe exchangeable graduation 1-15 in mm steps M4 x 0.5 mm

**Ы○○** Universal Handle single-ended

QUICKFIX, black, incl. 1 end cap The handle is available in 10 different colors. See page 03-02 and 03-03 for the article numbers of all **ЫОПІ**Н Handles available.





#### 24.453.15 **Furcation Probe by Nabers**

with graduation, double-ended, rolled, 5.5 mm

#### Universal Handle Endo-Control

acc. to Dr. Carsten Franke

Due to its laser-marked measuring scale, the **HELMUT ZEPF** Endo-Control Mouth Mirror Handle allows a simple determination of the required working length. The measuring precision can be adjusted to 0.5 mm. The sandblasted surface reduces surface reflections.





24.454.03

**CPG 11.5 (WHO)** 

26.180.07 **Universal Handle** 

Periodontal Probe exchangeable, M2.5 graduation 3.5/5.5 / 8.5/11.5 mm

**ZEPF** Design, single-ended, M2.5 with endo calibration

#### Periodontal Probes

All **HELMUT ZEPF** Periodontal Probes are high-speed machined. Their tips are thus very fine and dimensionally accurate to within very high tolerances. All our PA-Probes have markings that are suitable for ultrasonic cleaning.

Our WHO Periodontal Probes have spherical tips.

#### They are particularly ideal for:

- determining papillary
- bleeding indices, and their "stops" (the balls on their tips) prevent injuries when measuring the depths of pockets, i.e., they are more atraumatic than other types of PA Probes.











#### Periodontal Screening Index, PSI

For using the periodontal screening index, it is necessary to use the WHO probe. The steel ball at the distal end of the probe features a diameter of 0.5 mm.

The steel ball avoids not only injuries but allows to discover rough surfaces and edges of dental fillings. The first measurement area of the probe is a black 2 mm band, which shows the depth from 3.5 mm up to 5.5 mm. For further information, please check the relevant description of the periodontal screening index (PSI).



graduation 3/6/9/12 mm

The **ZEPF** | O | Handle is available in 10 different colors.

See page 03-02 and 03-03 for the article numbers of all

**ЫОПН** Handles available.



24.454.02 CPNG 22

graduation 2/4/6/8/10/12 mm





24.454.03 CPG 11.5

graduation 3.5/5.5/8.5/11.5 mm



24.454.05 Williams

graduation 1/2/3/5/7/8/9/10 mm



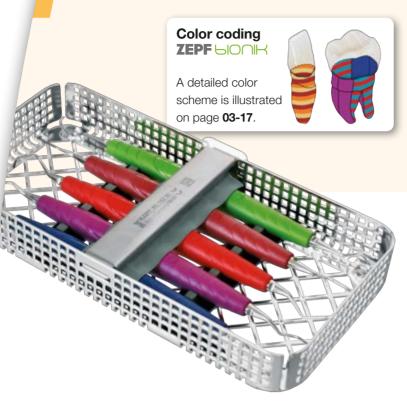
24.454.06 CNC

graduation 1-15 in mm steps, North Carolina



24.454.06TI CNC

graduation 1 - 15 in mm steps, North Carolina, titanium



# **ZEPF** SONH Prophylaxis-Set 'Gracey'

The four most common Gracey Curettes and one Universal Scaler are all you need for the prophylaxis in all quadrants.

All inserts are exchangeable. QUICKFIX

#### 24.990.50

#### ZEPF 600H

Prophylaxis Set 'Gracey', consisting of Gracey 5/6, 7/8, 11/12, 13/14, Scaler 204S and 1/3 Washtray

The set 'Gracey' consists of the following instruments:





5-1 | 1-5 5-1 | 1-5 24.203.05G



24.751.105G

GRA 5/6 Special Curette for front teeth/premolars, more sharply angled, red-purple

24.751.106G



8-4 4-8 **24.205.07G** 



24.751.107G

GRA 7/8 Special Curette for premolars/molars, more sharply angled, lightred-magenta

24.751.108G



24.204.11G



24.751.111G

GRA 11/12 Special Curette for use on all mesial surfaces of premolars/molars. Skewed to allow optimal placement, signal purple

24.751.112G



24.207.13G



24.751.113G

GRA 13/14 Special Curette for use on all distal surfaces of premolars/molars. Skewed to allow optimal placement, cobalt blue

24.751.114G



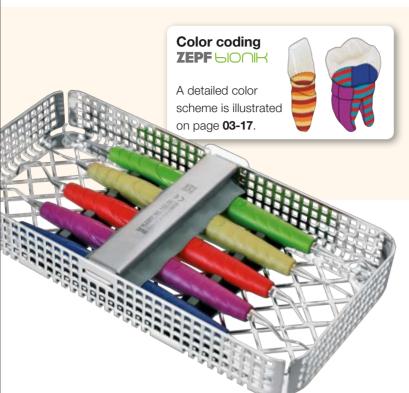
24.208.04S



24.751.204L

Sickle Scaler, # 204 S, for removing dental plaque from interdental spaces in the molar area, yellow-green

24.751.204R



# **ZEPF** SOUND Prophylaxis Set 'M5 Deep Scaling'

**HELMUT ZEPF** M5 Curettes have a 1st shaft which is about 3 mm longer. The sharpened instrument tip is shortened as to allow a special subgingival curettage for tight and deep pockets as well as narrow root surfaces. All inserts are exchangeable. *QUICKFIX* 

#### 24.990.55

#### ZEPF 500H

Prophylaxis Set 'M5 Deep Scaling', consisting of Gracey 1/2 M5, 7/8 M5, 11/12 M5, 13/14 M5, Scaler 204S and 1/3 Washtray

The set 'M5 Deep Scaling' consists of following instruments:







3-1 1-3

**24.201.01GM5**GRA 1/2 M5 Special Curette for front teeth,

slightly angled, yellow



24.751.102GM5



24.205.07GM5



24.751.107GM5

24.751.101GM5

GRA 7/8 M5 Special Curette for premolars/molars, more sharply angled, lightred-magenta

24.751.108GM5



24.204.11GM5



24.751.111GM5

GRA 11/12 M5 M5 Special Curette for use on all mesial surfaces of premolars/molars. Skewed to allow optimal placement, signal purple

24.751.112GM5



24.207.13GM5



24.751.113GM5

GRA 13/14 M5 Special Curette for use on all distal surfaces of premolars/molars. Skewed to allow optimal placement, cobalt blue

24.751.114GM5



8-6 | 6-8 8-6 | 6-8 **24.208.04S** 



24.751.204L

Sickle Scaler, # 204 S, for removing dental plaque from interdental spaces in the molar area, yellow-green

24.751.204R



## **ZEPF** SONH Prophylaxis Set 'Universal'

Unlike Gracey Curettes, **HELMUT ZEPF** Universal Curettes have two working surfaces or cutting edges. The Universal Set allows a quick and efficient prophylaxis treatment.

#### 24.990.60

#### ZEPF 600H

Prophylaxis Set 'Universal', consisting of Langer 1/2, 3/4, 5/6, M23, Universal Curette 204S and 1/3 Washtray. QUICKFIX

The 'Universal' Set consists of the following instruments:





- | -8-4 | 4-8 **24.210.01L** 



**Langer**, # L 1/2,

Universal Curette for use on lower molars and premolars, black



8-4 | 4-8 - | -



24.751.103L

24.751.101L

**Langer**, # L 3/4,

24.751.104L

Universal Curette for use on upper molars and premolars, yellow-green



3-1 | 1-3 3-1 | 1-3 24.201.05L



24.751.105L

**Langer**, # L 5/6,

24.751.106L

Universal Curette for use on upper and lower front teeth, yellow



24.207.23



24.751.123L

M 23 Universal Curette for use on upper and lower side teeth and supragingival dental plaque. Slim version, cobalt blue

24.751.123R



24.208.04S



24.751.204L

Sickle Scaler, # 204 S, for removing dental plaque from interdental spaces in the molar area, yellow-green

24.751.204R

24.751.106G

24.751.108G

# **ZEPF** GOOK Prophylaxis Set 'Bionik'

#### ZEPF 600H

Prophylaxis Set 'Bionik', consisting of Gracey 5/6, 7/8, 11/12, 13/14, Hygienist 6/7, Scaler 204S, PA Probe CPG 12 with CONIH Universal Handle and 1/2 Washtray. QUICKFIX

The 'Bionik' Set consists of the following instruments:



24.454.01 CPG 12

graduation 3/6/9/12 mm

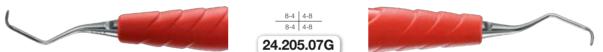
24.751.105G

24.751.107G

**26.194.06** Local Universal Handle, PEEK, for exchangeable inserts, single-ended, turquoise-brightblue



GRA 5/6 Special Curette for front teeth/premolars, more sharply angled, red-purple



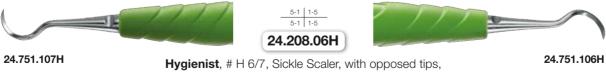
GRA 7/8 Special Curette for premolars/molars, more sharply angled, lightred-magenta



24.751.111G GRA 11/12 Special Curette for use on all mesial surfaces of premolars/molars. Skewed to allow optimal placement, signal purple



**24.751.113G** GRA 13/14 Special Curette for use on all distal surfaces of premolars/molars. Skewed to allow optimal placement, cobalt blue



for front teeth and premolars, yellow-green



Sickle Scaler, # 204 S, for removing dental plaque from interdental spaces in the molar area, yellow-green

## OS-16 Periodontology





#### **ZEPF** Special Curettes

**HELMUT ZEPF** Gracey Curettes are special Curettes that have just a single working surface or cutting edge, and are thus suitable for removing concrementations or dental plaque only.

The **ZEPF** | O | Handles are available in 10 different colors.

See page 03-02 and 03-03 for article numbers of the different color and handle versions. QUICKFIX





24.204.11G

24.207.13G

24.204.15G

24.207.17G





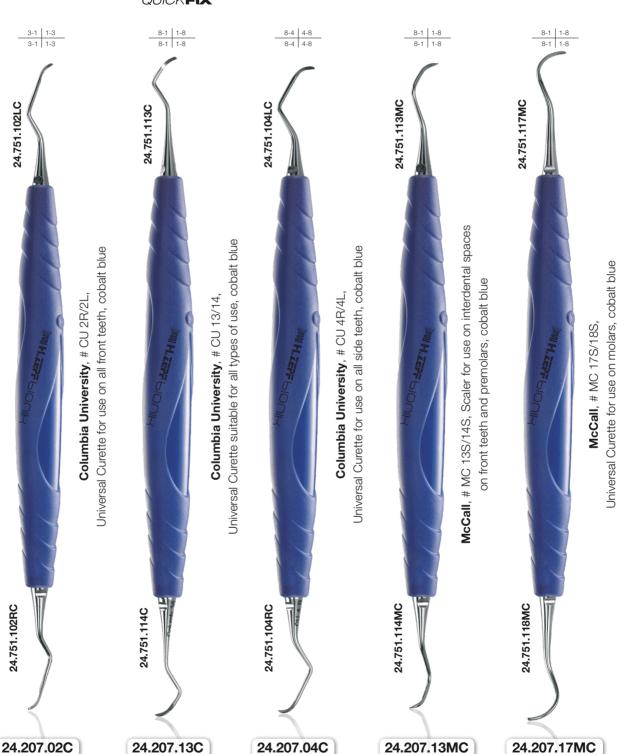


reddot design award winner 2010

#### **ZEPF SOURCE** Universal Curettes

Unlike Gracey Curettes, **HELMUT ZEPF** Universal Curettes have two working surfaces or cutting edges, and thus allow using the same instrument on mesial and distal surfaces. All inserts are exchangeable.

The **ZEPF** | O | Handles are available in 10 different colors.





**24.207.17MC** M 23 Scaler for use on upper and lower side teeth







reddot design award winner 2010

## **ZEPF SIONIH** Universal Titanium Curettes Ti

Universal Curettes with exchangeable, very delicate titanium inserts from **HELMUT ZEPF**, to remove the accumulated plaque film on the implant necks.

The titanium inserts are exchangeable.

The **ZEPF** | O | Handles are available in 10 different colors.

See page **03-02** and **03-03** for article numbers of the different color and handle versions. *QUICKFIX* 





# **ZEPF IOOIH** M5 Titanium Curettes Ti

**HELMUT ZEPF** M5 Curettes have a 1st shaft which is about 3 mm longer.

To remove the accumulated plaque film on the implant necks.

The titanium inserts are exchangeable.

The **ZEPF** | O | Handles are available in 10 different colors.

See page 03-02 and 03-03 for article numbers of the different color and

handle versions. QUICKFIX







24.207.13GM5-TI

surfaces of premolars/molars. Skewed to allow optimal placement, cobalt blue





#### reddot design award winner 2010

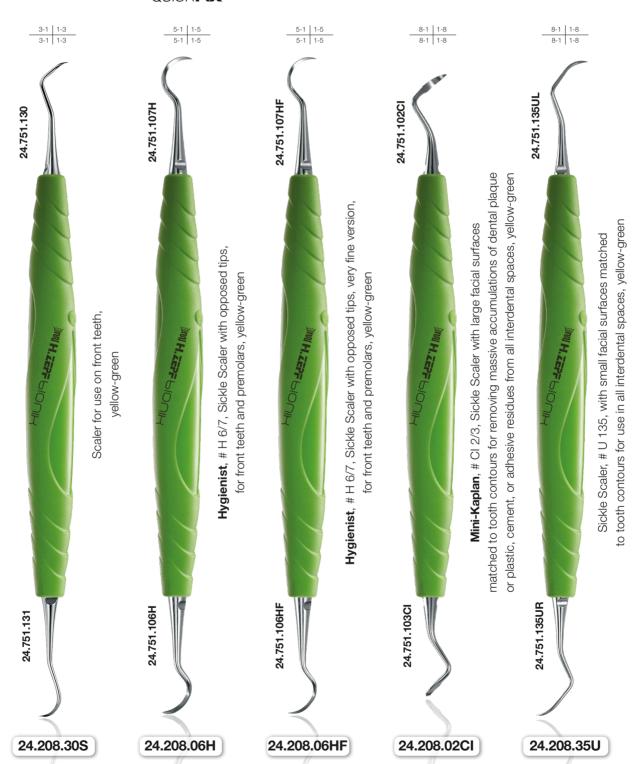
#### **ZEPF Scaler** Scaler

**HELMUT ZEPF** Sickle Scalers have ultrafine tips for supragingival use. Unlike Jacquette scalers, they have curved facial surfaces. With blunt tips, for general use.

All inserts are exchangeable.

The **ZEPF** | O | Handles are available in 10 different colors.

See page 03-02 and 03-03 for article numbers of the different color and handle versions. QUICKFIX



















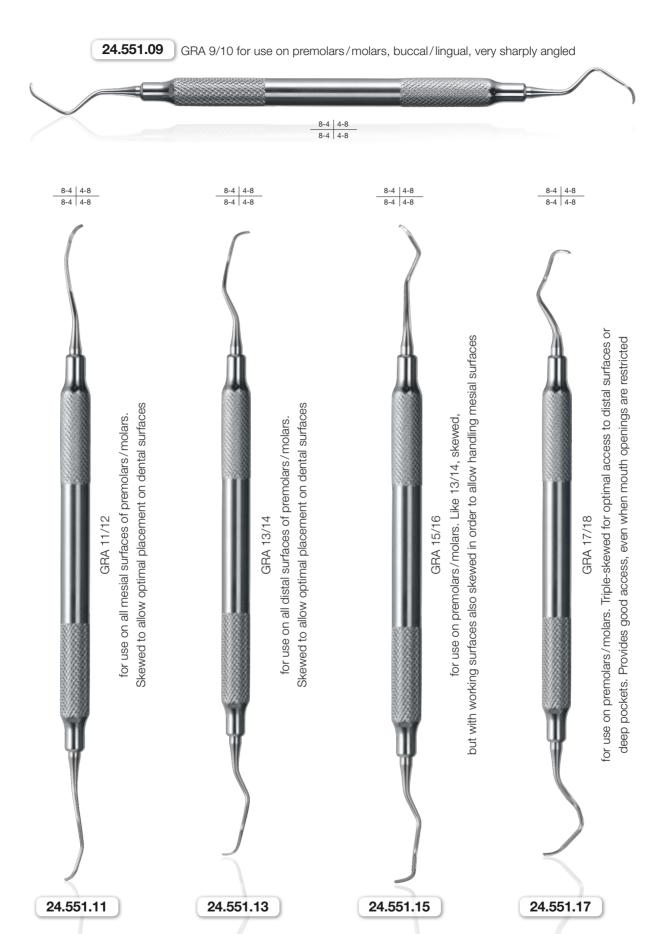
24.551.03



24.551.05









Universal Curettes



















Hirschfeld

Periodontic Files

# Gingivectomy Knives

# For removing very hard dental plaque, concrementations, and deposits on root surfaces and for smoothing. #3/7, buccal and lingual 24.488.01 24.488.02





allow their use in retromolar areas as well











Gingivectomy Knife, # GF11









24.437.03

Goldman-Fox, lance-shaped, cutter for use in interdental spaces

Gingivectomy Knife, # GF3

24.437.04

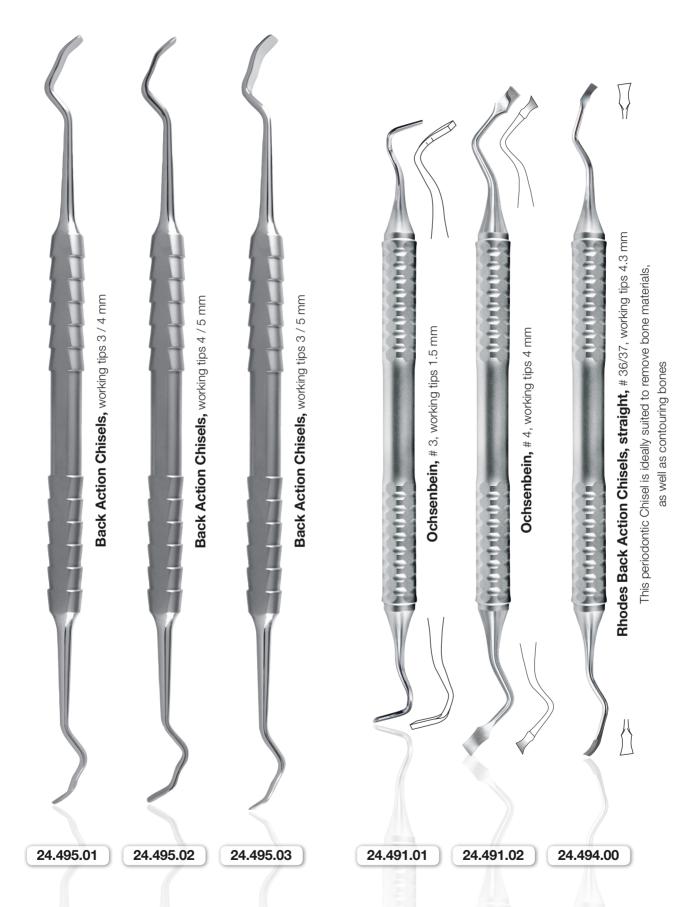
24.437.07

## Periodontal Chisels











## Original Arkansas Sharpening Stones





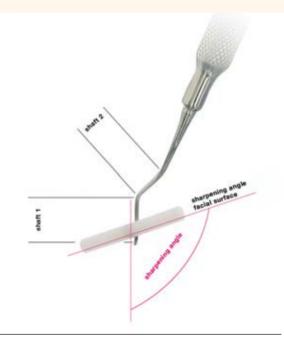
100 x 10/1 mm, conical

#### 24.926.10

24.914.10

#### **Magnetic Sticks**

Once the first shaft is fixed in a right angle (use a vise with "Rounded Swing Head" for this purpose) the magnet stick is placed onto the facial surface. This will be carried out automatically. In so doing, you achieve the sharpening angle simply and accurately. As such you can now sharpen the curettes with precision. Best results can be obtained with Natural Stone (Original Arkansas) and wetting slightly with Sharpening Oil 24.950.00.







24.926.75

**Test Probe, Acryl Glass** 76 x 6 mm, PU = 6 pieces

24.950.00

**Sharpening Oil** 100 ml, for Original **ZEPF** and Arkansas Stones



Vise
Vise on a ball socket, revolving in
all directions, for installing on table
with screw.





#### **Original Arkansas Stone**

The diameter of the Original Arkansas Stone is designed to fit the contour of the working ends of our luxation elevator 17.006.01 to 04 and those of our **ZEPF** Xtool-Elevator 17.007.01 to 07.

So do sharpen your luxation elevators regularly! The best results can be obtained in combination with our Sharpening Oil 24.950.00.



110 x 10 mm, round

## **ZEPF** Sharpening Stones

Just sharp instruments! Oxide ceramic sharpening stone with extraordinary hardness. Highest resistance to wear and tear and to deformation, to achieve an excellent surface quality when grinding. The low wear properties provide attractive economic advantages in comparison to customary Arkansas sharpening stones.



#### 24.914.30 24.914.35









# 100 x 10 mm, round, medium

24.914.40



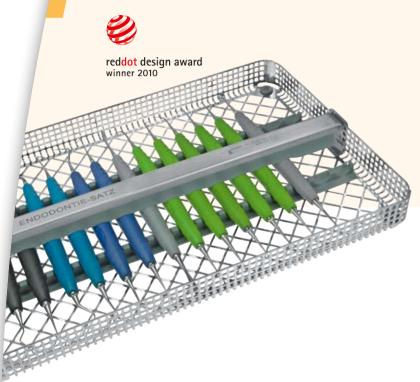
#### 24.914.45

100 x 5 x 2 mm, conical, fine



24.919.15 'India' multiform 125 x 40 x 10-2 mm, conical, fine





#### **ZEPF SOURCE** Endo Set

The **HELMUT ZEPF** Endo Set contains extremely fine working tips to ensure a safe access to the delicate root apex.

The **ZEPF** | O | Handle is available in 10 different colors. See page 03-02 and 03-03 for article numbers of the different color and handle versions. QUICKFIX

#### 24.725.00

#### ZEPF 600H

Complete Kit for the retrograde microsurgical technique in the endodontic field, incl. washtray

The 'Endo' Set consists of the following instruments:





24.725.05



24.751.114C



24.725.07



24.751.111



24.725.08



Excavator surgical, double-ended, angled 1.4 mm, flat

24.751.112R



24.725.09



24.751.113L

24.751.113C

24.751.110

24.751.112L

Excavator surgical, double-ended, angled 1.2 mm, round

24.751.113R



24.725.20



24.751.105

Explorer, double-ended, # 16 and # 9

24.751.104





24.751.172

24.751.153



24.751.173

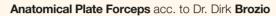
24.751.179

Combined Instrument, Raspatory-Scalpel-Dissection Tip

**24.725.74**Retro-Instrument, plugger Ø 0.8 / Ø 0.5 mm, 65°, micro plugger

# Anatomical Plate Forceps

for all Endo purposes



The full area contact generated by compressing the tweezers, ensures a safe support in each gripping angle. The Plate Forceps are featuring a much higher safety when gripping, holding and positioning fine and delicate objects. This problem has been solved by the patented design of the Plate Forceps as their working tips have circular surfaces with additional serrations inside. Easy and relaxed handling due to low holding forces to allow a safe and fast treatment.







22.107.21 Anatomic Plate Forceps 180 mm



Nerve-Canal Pliers for grasping fractured root-canal instruments or silver pins.

The very fine, concave cutout on the working tip allows to remove even deep-lying fractured files.

19.649.60

#### **Surgical Aspirator**

with Luer Connector, curved, optimal for Endo-Tips, 175 mm long, Ø 4.2 mm



24.074.13 Ø 3.0 mm



24.074.15 Ø 5.0 mm



**24.074.16** 7.0 x 2.0 mm

24.074.17 9.0 x 3.0 mm

#### Micro Mirrors

Micro Mirror with rhodium front surface coating, for a distortion-free mirror image, without double reflection.

The Micro Mirrors are excellent aids in microsurgery and endodontics. Suitable for usage with enlarging glasses or OP-Microscopes.

All mirrors fit into commercially available mouth mirror handles with a diameter of M2.5 mm (see page 02-02).



19.509.10 **Endo Plugger 3/5,** yellow color marking = 3°, red color marking = 5°, length of the tips 28 mm,  $\varnothing$  0.3 mm and  $\varnothing$  0.4 mm



19.509.20 **Endo Plugger 7/10,** blue color marking = 7°, grey color marking = 10°, length of the tips 28 mm, Ø 0.5 mm and Ø 0.9 mm

# Peet Splinter Forceps

The Peet Splinter Forceps is a clamp with perfect grip due to diamond coating. The universal S-curve, as known from La Grange Scissors, makes it particularly flexible in usage. The Peet Splinter Forceps 22.523.90D has a stronger curve (90°), which increases accessibility into the molar areas.

22.523.13 11.5 cm, diamond coated, La Grange curved



La Grange curved



# Root Canal Instruments All figures are very flexible.





#### **Root Canal Spreader**



#### **Root Canal Plugger**

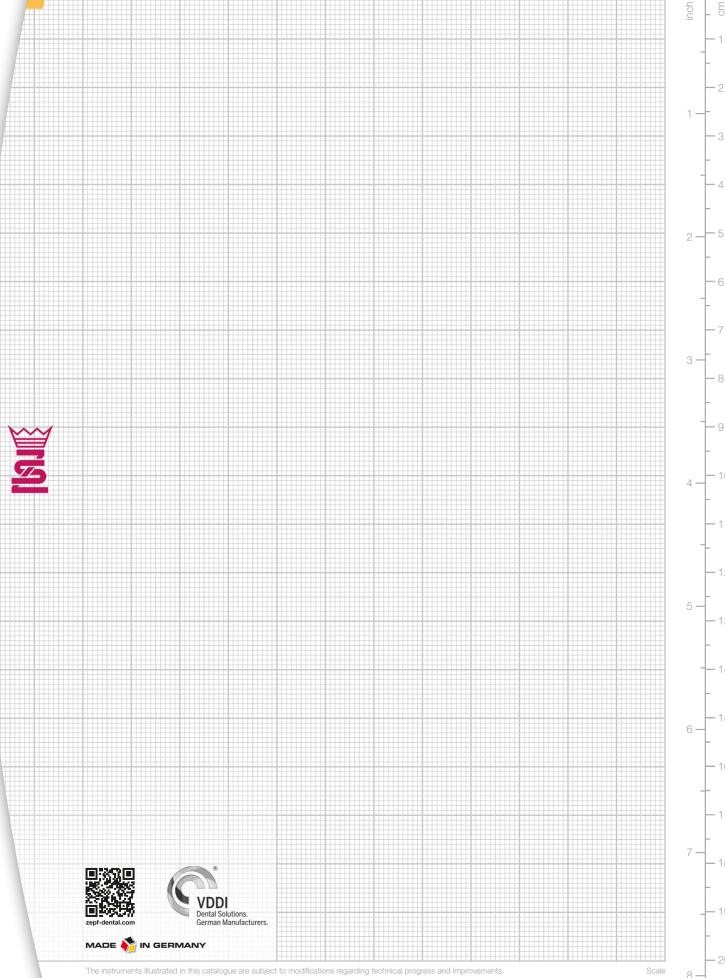


#### **Root Canal Plugger**

65°, graduation 5/10/15/20 mm





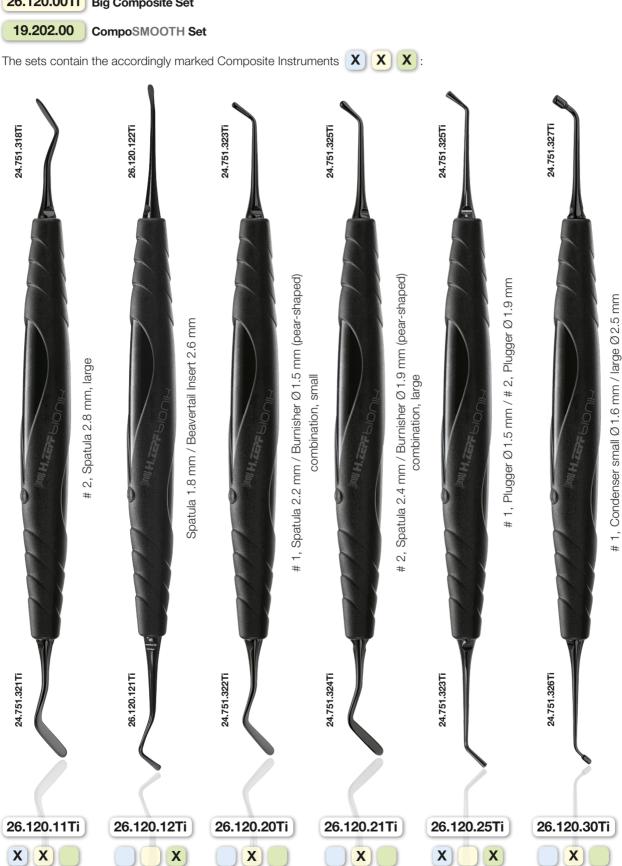




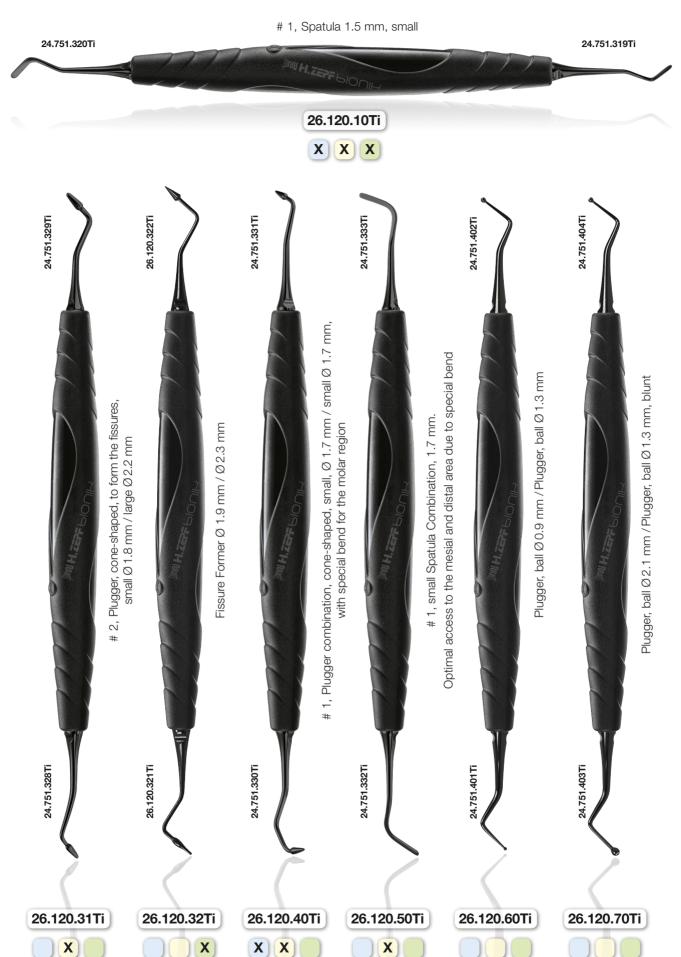


26.120.01Ti Small Composite Set

26.120.00Ti Big Composite Set











Re-creating the original tooth as faithfully as possible is a challenging task for the material, the dental technician and the dentist. In case of direct composite restorations, the complete esthetic responsibility lies in the hands of the practitioner. Optimal instruments are the key to success.





19.201.31



**Soft Application Inserts** for layering technique for handle 19.200.00 QTY 12 pieces



19.202.00

CompoSMOOTH Complete Set in the box incl. Washtray 1/3, with Brush Holder, 3 x 12 Soft Application Inserts and 4 Composite Instruments





















Brush Holder **ZEPF**-Line with push-out function

26.120.10Ti

26.120.12Ti

26.120.25Ti

26.120.32Ti

The new CompoSMOOTH, a special silicone brush, allows an effortless adaptation and modelling of the composite surface before polymerization. Even "sticky" composites can be adapted in an optimal way. The perfect surface morphology is created almost automatically by light pressure. The tooth shape is modeled in a way that reduces the subsequent polishing work to a minimum... and the result - optimal!





Brush Holder 30° Optionally available

**HELMUT ZEPF** developed this brush holder which is bent by 30° to get an optimal result in difficultto-reach places. This instrument is not included in the set, but it can optionally complete the set

in a profitable way.





19.200.30

Brush Holder curved 30° ZEPF-Line with push-out function



#### **ATTIN Compo Knives**

to remove composite residues in filling treatment



With the ATTIN Compo Knives in the ZEPF SOOIH Handle, instruments have been specially developed for removing composite filling residues. Coated with name of 4500 Vickers. Every dentist removes composite filling residues in different ways. Some use curettes, others excavators and sometimes scalpel blades are used. Curettes and scalers are usually too weak, i.e. there is a high risk of breakage. Scalpel blades have a high level of hardness, are correspondingly sharp and are good to use. But there are only a few angles available, so they do not allow ergonomic working.

The new ATTIN Compo Knives have addressed this requirement, i.e. strong blades manufactured at the correct angles, so all quadrants can be optimally reached.

With the new **ZEPF** nanapale coating, the surface has a hitherto unknown hardness.

The cutting performance is therefore guaranteed for a long period. Should an insert ever become blunt, it is easy to replace only this instrument insert.

#### **Advantages:**

- Only two instruments for all quadrants
- **ZEPF** ☐☐☐☐☐☐☐ coating for maximum cutting performance and lifetime
- Instrument inserts are exchangeable
- Non-light reflecting surface



exchangeable inserts with nanapar coating







#### Micro-composite Spatulas superfine spatulas with **ZEPF** nanapace coating



In the case of direct composite restorations, the entire aesthetic responsibility lies in the hands of the practitioner.

With the new micro-composite spatulas in 1.1 mm and 1.6 mm, the practitioner is provided with highly flexible ultra-fine spatulas for precise modeling of delicate structures.





The new ZEPF nanapac coating offers you a very good contrast to the used material. The polished surface is easy to clean and extremely scratch resistant.





**Ы○○Ⅲ** Universal Handle made of PEEK high-tech plastic material – guarantees an ideal power transmission with formerly unknown sensitivity. The handle is available in 10 different, fresh basic colors.

The exchangeable working tips inserted in the ergonomic Ы○○IH handle offer highest economy and best tactile handling.







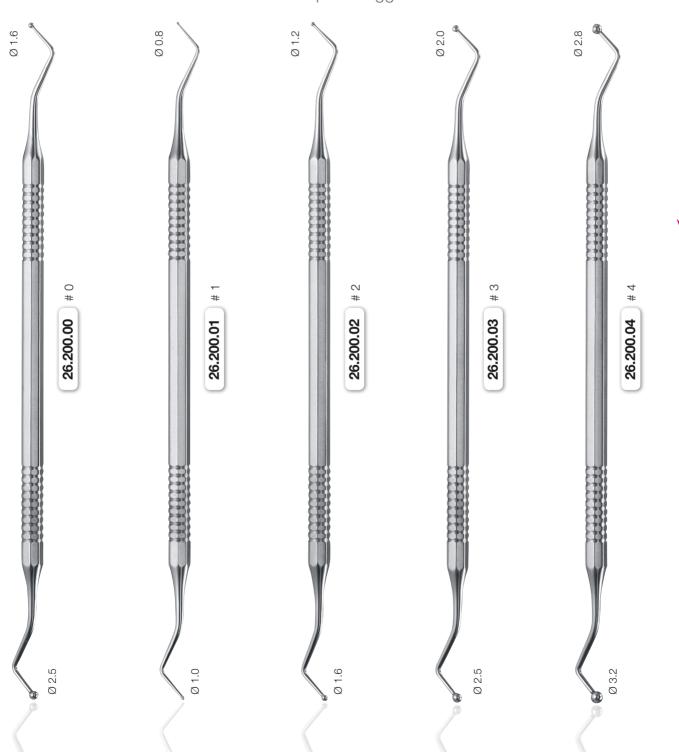
**26.120.14Ti** Micro-composite Spatula, width 1.6 mm







# Ball-shaped Plugger



# Spatula

# Condenser

**HELMUT ZEPF** Filling Instruments are well-balanced, i.e., the offsets of their blades are symmetric about the longitudinal axes of their handle, which keeps their blades from twisting under load.





26.260.00

flexible, 2.0 mm

26.260.01

flexible, 2.5 mm

# Heidemann Spatula Cement Spatula 26.130.01 # 0 # 1 # 2 26.130.02

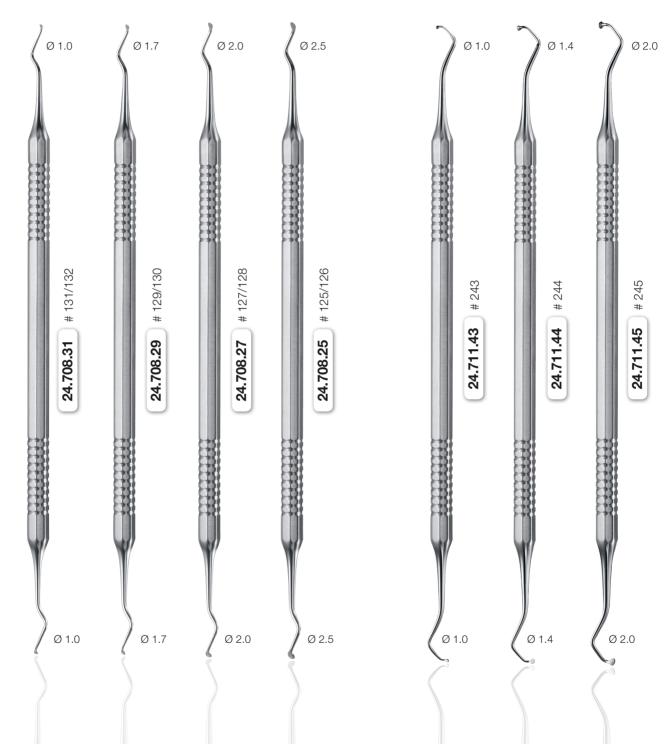
26.260.02

flexible, 3.0 mm



## Excavators

Excavators in different angles to remove softened dentine during cavity preparation.



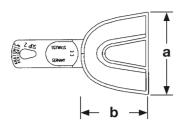


2.5 mm

\_\_\_\_ 1.5 mm

2.0 mm





## Anatomic Ehricke for Upper Jaw

The choice of the impression tray and the impression technique will influence the final result significantly.

If polyethers are used, we are recommending non-perforated impression trays.

#### Regulars (BO)



#### 28.631.00

a = 55 mm, b = 39 mm, SUP B0

#### 28.631.03

a = 73 mm, b = 63 mm, SUP B3

#### 28.631.01

28.631.04

a = 65 mm, b = 52 mm, SUP B1

a = 80 mm,

b = 73 mm,

SUPB4

#### 28.631.02

a = 71 mm, b = 60 mm, SUP B2

#### Edentulous (UO)



#### 28.634.01

a = 65 mm, b = 56 mm,SUP U1

#### 28.634.02

a = 68 mm, b = 61 mm,SUP U2

#### 28.634.03

a = 72 mm, b = 65 mm, SUP U3

#### Partials, depressed centers (PO)



#### 28.632.01

a = 62 mm, b = 51 mm, SUP P1

#### 28.632.02

a = 72 mm, b = 54 mm,SUP P2

#### 28.632.03

a = 73 mm, b = 60 mm, SUP P3

#### **Functional impressions (FO)**



#### 28.633.01

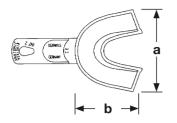
a = 61 mm, b = 50 mm, SUP F1

#### 28.633.02

a = 67 mm, b = 55 mm, SUP F2

#### 28.633.03

a = 77 mm, b = 63 mm, SUP F3



## Anatomic Ehricke for Lower Jaw

The choice of the impression tray and the impression technique will influence the final result significantly.

If polyethers are used, we are recommending non-perforated impression trays.

#### Regulars (BU)



#### 28.636.00

a = 61 mm,b = 44 mm,INF B0

#### 28.636.03

a = 82 mm, $b = 58 \, \text{mm},$ INFB3

#### 28.636.01

a = 72 mm,b = 51 mm,INFB1

#### 28.636.04

a = 83 mm, $b = 65 \, \text{mm},$ INFB4

#### 28.636.02

 $a = 78 \, \text{mm},$ b = 54 mm,INFB2

#### **Edentulous (UU)**



### 28.638.01

a = 71 mm.b = 58 mm,INFU1

### 28.638.02

a = 70 mm. b = 58 mm,INFU2

#### 28,638,03

a = 74 mm.b = 59 mm, INF U3



#### Partials, depressed centers (PU)



#### 28.637.01

a = 64 mm.b = 53 mm,INFP1

#### 28.637.02

a = 71 mm. b = 59 mm,INFP2

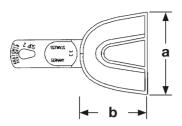
#### 28.637.03

a = 80 mm.  $b = 59 \, \text{mm},$ INFP3

# Modeling Knife for Impressions

Silicone Knife with cutting loop.





# Perforated Anatomic Ehricke for Upper Jaw

A-Silicone putties can be applied in perforated impression trays, as the perforation intensifies the rotation of the material in the impression tray.

#### Regulars (BO)



#### 28.601.00

a = 55 mm, b = 39 mm, SUP B0

## 28.601.03

a = 73 mm, b = 63 mm, SUP B3

#### 28.601.01

a = 65 mm, b = 52 mm, SUP B1

# 28.601.04

a = 80 mm, b = 73 mm, SUPB4

#### 28.601.02

a = 71 mm, b = 60 mm,SUP B2

#### **Edentulous (UO)**



#### 28.604.01

a = 65 mm, b = 56 mm,SUP U1

### 28.604.02

a = 68 mm, b = 61 mm,SUP U2

#### 28.604.03

a = 72 mm, b = 65 mm,SUP U3

#### Partials, depressed centers (PO)



#### 28.602.01

a = 62 mm, b = 51 mm, SUP P1

#### 28.602.02

a = 72 mm, b = 54 mm,SUP P2

#### 28.602.03

a = 73 mm, b = 60 mm,SUP P3

#### **Functional impressions (FO)**



#### 28.603.01

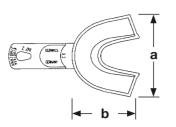
a = 61 mm, b = 50 mm, SUP F1

#### 28.603.02

a = 67 mm, b = 55 mm, SUP F2

#### 28.603.03

a = 77 mm, b = 63 mm, SUP F3



# Perforated Anatomic Ehricke for Lower Jaw

A-Silicone putties can be applied in perforated impression trays, as the perforation intensifies the rotation of the material in the impression tray.

#### Regulars (BU)



#### 28.606.00

a = 61 mm, b = 44 mm, INFB0

#### 28.606.03

a = 82 mm, b = 58 mm, INF B3

#### 28.606.01

a = 72 mm, b = 51 mm, INF B1

#### 01

 $\begin{array}{ll} \text{mm,} & \text{a} = 78 \text{ mm,} \\ \text{mm,} & \text{b} = 54 \text{ mm,} \\ \text{INF B2} \end{array}$ 

#### 28.606.04

a = 83 mm, b = 65 mm, INF B4

#### **Edentulous (UU)**



#### 28.608.01

a = 71 mm, b = 58 mm,INFU1

#### 28.608.02

a = 70 mm, b = 58 mm, INF U2

#### 28.608.03

28.606.02

a = 74 mm, b = 59 mm,INF U3

#### Partials, depressed centers (PU)



#### 28.607.01

a = 64 mm, b = 53 mm, INFP1

#### 28.607.02

a = 71 mm, b = 59 mm, INF P2

#### 28.607.03

a = 80 mm, b = 59 mm, INF P3



# 04-18 Conservation

+49(0)7464/98880

# Impression Trays for Implantology acc. to Helfgen

- simple handling
- open and closed implant impression
- putty-wash impression possible
- precision enhancement
- also universally usable in case of special indications
- only one impression session required
- sterilizable
- different sizes
- time and cost efficient





# Functionality of the Impression Trays for Implantology acc. to Helfgen

SUP 4



1. In the area of the prepared teeth, retraction cords are placed. Smooth, retention free screws are twisted into the implants.



**2.** On its lateral sides the covered tray is coated with adhesive. Then the tray is charged with putty material.



**3.** For the primary impression, the charged tray will be pressed until the cover rests on the smooth implant screws.



**4.** After the removal of the primary impression, the smooth screws will be exchanged for the complete impression posts





**5.** The tray cover is removed and the impressed screw channel is extended with the perforator.



**6.** For undisturbed repositioning, the perforated channel may be extended further using a super-coarse mill.



7. After the impression areas have been surrounded by ligth-body material, the repositioned impression may be filled additionally via the perforations of the cap channels, if required.



**8.** Once the material has cured, the positioning screws are loosened, and the finished impression can be removed.

# Impression Tray for Partial Impressions

28.663.02 28.664.02

# L2, A = 50 mm # R2, A = 50 mm

28.663.03 28.664.03

# L3, A = 55 mm # R3, A = 55 mm 28.661.01 28.662.01

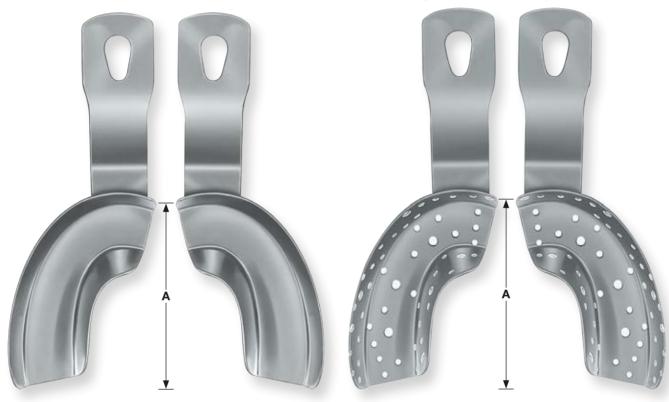
# L1, A = 46 mm # R1, A = 46 mm

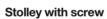
28.661.02 28.662.02

# L2, A = 50 mm# R2, A = 50 mm

28.661.03 28.662.03

# L3, A = 55 mm# R3, A = 55 mm





28.671.00 28.672.00



#### Stolley with bolt

28.681.00 28.682.00 perforated non-perforated





### Brush Holder DBGM

#### Its most important features...

Our ZEPF Brush Holder is used for applying liquid treatment agents (enamel or dentine adhesion agents, acids, lacquers, or fluoridation agents) to dental surfaces or cavities.



1 Reverse-angle instrument









#### Its features at a glance

- Includes a dual brush receptacle and an original **ZEPF** scaled handle.
- Universal use on both upper and lower jaws and on all dental surfaces and
- No need for plastic applicators (reduces waste).
- May be desinfected and sterilized by using any standard procedure.
- Virtually unlimited service life.
- Designed for optimal ergonomy and general-purpose use.
- Suitable for all regular brush inserts (single use).
- Used in all areas of dentistry, especially adhesive restoration work.



# Separation Forceps pat. pend. by Dr. Peter Müller, Ebersbach

#### Their benefits...

- Innovative, functional design.
- Rapid, safe, efficient spreading.
- Adjustable rest allows supporting them on teeth.
- Good access to interdental spaces during spreading.
- For general-purpose use on upper or lower jaws.
- Substantial time savings.
- Secure, one-handed control.
- For right-handed and left-handed persons.
- Desinfectable and sterilizable by using any standard procedure.



The adjustable rest may also be used to support the teeth at locations remote from the intervention point.







## Tofflemire Matrix Retainer

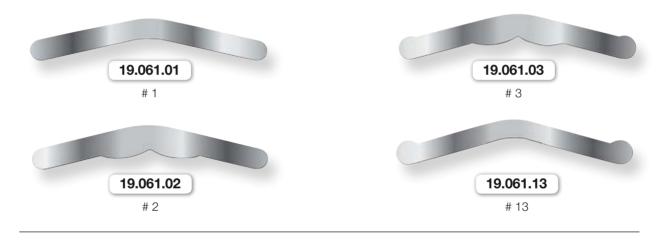
Manufactured from stainless steel.



## Tofflemire Matrix Bands for 19.060.00

Manufactured from top-quality, 0.035 mm gauge, stainless steel, packaging unit: 12 ea. of each size.





# Articulating Paper Forceps



## **EASY CONTACT POINT Instruments by HELMUT ZEPF**



Composites are not easy to process. The modeling of clinically ideal contact points in particular is a big challenge for the practitioner. The Easy Contact Point Instruments will help to simplify this work step.

These instruments are available in two sizes as pliers for MOD filling, i.e. as premolar and as molar pliers.

To be used as hand instruments for MO or DO fillings. Also available in two sizes for premolars and molars.

The treatment period for a composite filling can therefore be considerably reduced.

The related economic benefit is evident.



## Universal Finishing Clamp "Work smart not hard"





The **ZEPF** Finishing Clamp is an innovative holding instrument for finishing strips of all kinds. The instrument has been designed with ergonomics and functionality uppermost and contributes significantly to easing work involving finishing strips.

The treatment is pleasant for the patient because the tongue area is not restricted by the dentist's fingers and does not aggravate choking. Its main application is in the area of approximate composite fillings; apart from this the instrument is well suited for separation, the correction of filling surpluses in approximal area as well as the application of dental floss.



#### Fields of Application:

- 1) Completion of approximal composite fillings.
- **2)** Separating by means of steel-carbon strips or diamond skived steel strips.
- **3)** Correction of filling over-hangs in the approximal area.
- 4) Removal of matrix strips after laying fillings.
- **5)** Clamping dental floss for interdental plaque removal, especially in difficult access spots in the lateral tooth area.
- **6)** Clamping dental floss for removal of cement residues from the interdental area after cementing crowns / bridges.



23.120.12

**ZEPF** Finishing Clamp, QTY 2 pieces DBGM acc. to Dr. Peter Müller, Ebersbach

# Universal Forceps & Universal Tweezers

No treatment unit should lack these Universal **HELMUT ZEPF** Pliers and Tweezers. They are used for securely grasping provisional plastic items, bridges, nerve instruments, impacted matrices, attaching inlays, setting interdental wedges, etc.

Usable on both upper and lower teeth. Their TC-jaws provide a secure grip.



**22.281.15TC** Universal Tweezers, with TC insert, 14 cm



19.281.15TC

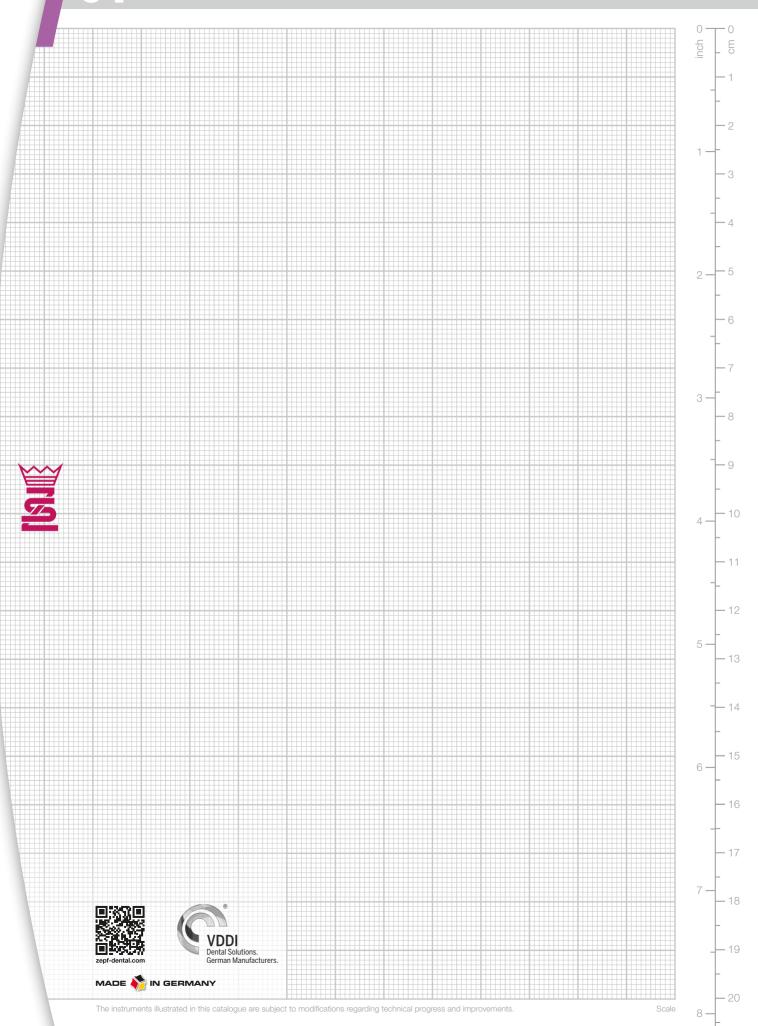
All-Purpose Pliers, with TC insert, 14.5 cm

# Peet Splinter Forceps



**22.523.90D** 11 cm, 90°, diamond coated, **La Grange** curved





zepf-dental.com

Extraction 05-01





Picture 1
Longitudinal extraction with Benex II step by step:
Pivot tooth extracted due to root fracture



Picture 2 Longitudinal extraction with Benex II step by step: Axial removal



Picture 3
Longitudinal extraction with Benex II step by step:
Soft and hard tissues preserved



Picture 4
Longitudinal extraction with
Benex II step by step:
Soft tissue,
12 weeks after extraction

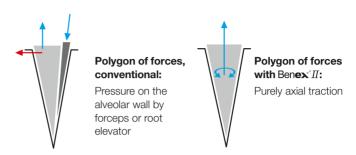


Picture 5
Longitudinal extraction with Benex II step by step:
Alveolar ridge,
12 weeks after extraction

## **Extraction System**

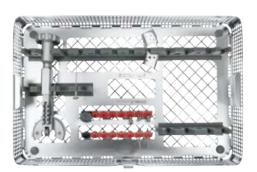
# Ben**ex**\*II

acc. to Dr. med., med. dent. Benno Syfrig



In modern dental treatment, implantology following extraction is increasingly favoured. Consistent with the principle of minimal invasion, conserving soft and hard tissue structures is a must. Starting with extraction. The modified  $\operatorname{Benex}^*II$  guarantees a gentle and simple extraction of roots in the whole mouth. It is nearly impossible to harm the soft tissue and the surrounding bone. Due to the longitudinal extraction,  $\operatorname{Benex}^*II$  is an optimal basis for direct implantation. It is also a valuable help for retarded implantation after the extraction with the  $\operatorname{Benex}^*II$  system. Studies made after the use of  $\operatorname{Benex}^*II$  prove that the reossification of the extraction alveole is advancing optimally. This is a great advantage for the retarded implantation.

The new  $Benex^*II$  is now available in a washbasket complying with the RKI guidelines. That way, the requirements of optimal cleanability and sterilization were taken into account. You will find further information, application examples and the  $Benex^*$  user forum at: **www.benex-dent.com** 



**12.302.00** Benex\*II Extraction System



**12.303.00** Benex\*II Basic Kit

# Alveolar Ridge Preservation with Benex\*II

#### What does it mean?

Alveolar Ridge Preservation means the treatment of the dental alveolus after extraction. 3 months after the **Benex**\* extraction you find a considerably better ridge relation than with conventional gentle extractions.

The **Benex**\* finds its successful application in both, private practices and universities. The **Benex**\* has achieved an excellent status worldwide as basis for a subsequently successful implantation.

The new support for the dismounted **Benex**\* System in a washbasket guarantees an optimal cleanability of **Benex**\* in a washing machine or in an ultrasonic bath. All components can be fixed safely in the support.

Upon cleaning, the system can be sterilized in assembled condition.

In addition to the **Benex**\* components, an optional periotome, an Xtool and an optional **Benex**\* Pole Extractor can be placed in the support.

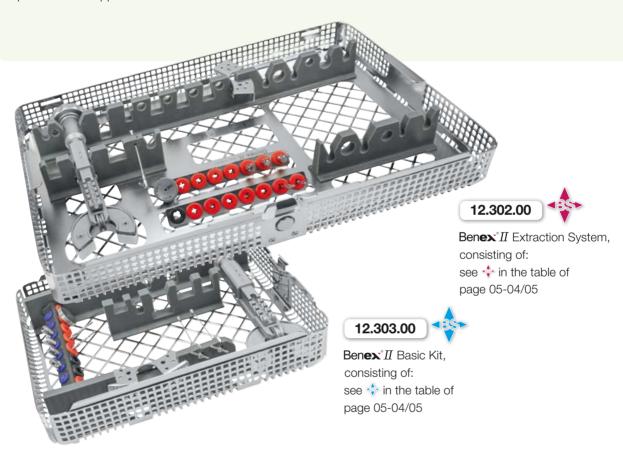








Illustration	Article Description	Order Quantity
	Benex*II Extraction System, consisting of: Benex*II Extractor, 2 Pullropes 48 mm, Driver Guide, Screw short 1.6 mm + 2.1 mm, Screw long 1.6 mm + 2.1 mm, 1 Drill ea. for 1.6 mm, 2.1 mm Screws, Quadrant Support, 85.195.10 Washbasket with Lid, 12.302.01 Tray/Rack for Benex*II	1 piece
DOCUMENTO CONTROL OF THE PROPERTY OF THE PROPE	12.302.01  Benex*II Tray / Rack	1 piece
*	85.195.00  Washbasket 1/1 with Lid and Press Button Lock	1 piece
	Benex*II Basic Kit, consisting of: Extractor, 2 Pullropes 48 mm, Driver Guide, Screw short 1.6 mm + 2.1 mm, Screw long 1.6 mm + 2.1 mm, 1 Drill ea. for 1.6 mm + 2.1 mm Screws, Quadrant Support, 85.194.10 Washbasket with Lid	1 piece
*	85.194.10 Washbasket 1/2 with Lid and Press Button Lock	1 piece
**	12.300.08 Benex*II Extractor	1 piece
	12.300.15  Replacement Support Disc, 8 mm (PTFE), optional	1 piece
	12.300.16 Support Disc, diagonally right, optional	1 piece
	12.300.17 Support Disc, diagonally left, optional	1 piece
**	<b>12.300.20</b> Pullrope, 48 mm	2 pieces

1 piece

# Illustration **Article Description Order Quantity** 12.300.30 2 pieces (1 🍁 🍫 ) Diamond coated Drill for Screws Ø 1.6 mm 12.300.60 and 12.300.70 12.300.35 2 pieces (1 🍁 🍁 ) Diamond coated Drill for Screws Ø 2.1 mm 12.300.65 and 12.300.75 12.300.47 1 piece Driver Guide, short 12.300.60 2 pieces Screw, Ø 1.6 mm, 10 mm, S = Short (1 💠 💠 ) 12.300.65 2 pieces Screw, Ø 2.1 mm, 10 mm, SF = Short & Fat (1 🍁 🍁 ) 12.300.70 2 pieces (1 🏇 🧆 ) Screw, Ø 1.6 mm, 16 mm, L = Long 12.300.75 2 pieces (1 💠 💠 ) Screw, Ø 2.1 mm, 16 mm, LF = Long & Fat 12.300.80 1 piece Quadrant Support for Benex to bridgeover bigger gaps and for the universal molding 12.300.11 1 piece Benex® Pole Extractor, optional 47.525.55 1 piece Ratchet with demountable handle, optional 47.525.50 1 piece Driver Guide FD, optional

12.300.45

Benex® Blade for Driver Guide FD, optional











# Application of the Extraction System

- 1. Anaesthesia. Cutting periodontal fibres (Sharpey fibres) in the sulcus by using the Periotome or the **HELMUT ZEPF X**(o.d.
- 2. Strong, large roots must be loosened / luxated by axial movements within 30 sec., using a slim elevator / twister ( Xrod from **HELITUT ZEPF**). Without using transversal movements. In case of multi-rooted teeth, the roots are divided and extracted separately.
- **3.** Drilling with the diamond coated twist drill should be in the axis and center of the root fragment. It should be approx. 7 mm in the hard tissue, deeper drilling will not be necessary. Drilling is performed with water-cooling. In order to remove drilling chips more easily, an inward and outward movement is recommended for deep drilling.

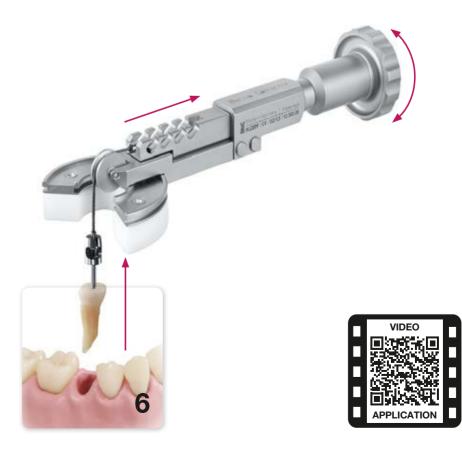
Recommended rpm:

500 - 700 rpm

**III** 12.300.30 max. 3000 rpm

№ 12.300.35 max. 2200 rpm

- **4.** According to circumstances, the short or long extraction screw with screwing support  $\blacksquare$  **12.300.47** is inserted.
- **5.** The extractor is positioned on the adjacent crowns: The opening of the round, revolvable segment plate is adjusted in vestibular direction ensuring a good view of the extraction screw. After the pullrope has been hooked into the extraction screw, it is guided over the reverse roller and fixed to the hook of the extraction slide. Under slight traction so that the rope does not hang out the instrument is placed on the adjacent teeth by turning the hand screw. During positioning it is important to see that both the screw and the rope do have the same axial direction.
- **6.** Once the extractor is positioned properly, the extraction is carried out by turning the hand screw. In case of strong, long roots the periodontal fibres have to be pre-stretched for 30 seconds by applying a sub-maximum traction.





The exclusive design and 25% reduced weight make the \*\*\*EFF\*\*\*XiSi(3)\*\*-Instrument-Line light as a feather.

The ergonomic handle design enables uniform power transmission during pressing, pulling and rotary movements and is equally suited for both right handed as well as left handed practitioners. The unique tip design adapts exactly to the tooth and is beyond comparison to other instruments.

The smooth handle with circular openings makes the \*\*EF\*\*\*Cision\*\*-Instrument-Line extraordinarily easy to be cleaned since there are no more hygiene-critical zones as with instruments with serrated handles.

The ideal handling and tactual sensation is guaranteed.

From design to functionality, this product line answers all your concerns.

The \*\*Isin\*\* Handle is a registered model of **HELMUT ZEPF**, which has been developed with Dr. Maty.





# **Extracting Forceps**



#### **Pattern**

All figures from **HELMUT ZEPF** are available in the **X**isign Pattern



#### **Diamond-Coating**

All extracting forceps are available with diamond-coating for better grip. For ordering etc. just add to the item number the letter **D**.



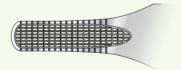
#### **Teflon Disc**

The wear-resistant Teflon Disc eliminates wear and tear in the joints and provides a light action at all times.



#### **Grooved Gripping Surfaces**

Grooved gripping surfaces provide a secure grip and prevent slipping.





























## 12.073.01Z

The slim, compact design of these zepr Xisim Extraction Forceps allows easy accessing molar areas, even when mouth openings are restricted.







# 51A



12.051.01**Z** 



# 13

























# 05-14 Extraction

+49(0)7464/98880



## Secure-Line

Our special **HELMUT ZEPF** Extracting Forceps in our modern **\*\*EPF\* \*\*** isign Design have tapered jaw tips. Their fine, sharp tips which have been anatomically shaped to match perfectly the teeth and allow to reach deep and large contact areas, which in turn provides better mechanical advantages and a more secure grip. Since these special **HELMUT ZEPF** Extracting Forceps have been designed for performing luxations, they have longitudinal grooves only on their jaws' gripping surfaces. The easy handling and superior "feel" of all our **\*\*EPF\* \*** isign Lines of Extracting Forceps are of prime importance for this product line!



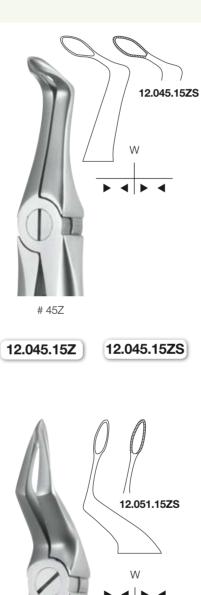
### Rescue-Line

No reason to panic! These forceps will allow you to carry out any extraction and work more efficiently even under complicated circumstances. If teeth break during extraction, these are the tools you need to rapidly, safely, solve your problems.

These forceps have special all-purpose jaws designed to cover a broad range of applications and have sharp pointed tips that allow separating the tips of roots from surrounding tissue by slightly twisting them and then securely trapping the extracted roots in the gaps between their jaws. The article numbers of extracting forceps with serrated edges are amended by **'ZS'**.







# 51Z

12.051.15ZS

12.051.15**Z** 





# Special Wisdom Routurier Extracting Forceps

Their angled shape will allow you to reach around obstacles and protect the corners of patients' mouths whenever their mouth openings are restricted or their jaws have been firmly clamped in position. Their slim compact design allows readily accessing molar areas.



## Witzel All-Purpose Root-Splinter Forceps diamond-tipped

Our special forceps for extracting root splinters from both upper and lower jaw have diamond-tipped jaws for the best possible grip, and are the ideal complement to our Rescue-Line.

If their diamond tips should ever become worn, simply contact our retipping service, who will put new diamond tips on them for a fixed charge.







12.059.00Z





14.700.10Z



14.701.10Z















5.4.3.2.1. 1.2.3.4.5.

12.036.00Z

Twist Ex 3
Extracting Forceps for lower front teeth,

deep-grip



5.4.3.2.1. 1.2.3.4.5.

12.036.01Z

Twist Ex 4
Extracting Forceps for lower front teeth and incisors, deep-grip



8. 8. **12.079.95Z** 

Twist Ex 5
Extracting Forceps for lower molars, deep-grip



8. 8.

12.067.95Z

Twist Ex 6
Extracting Forceps for upper molars, deep-grip



# Extracting Forceps, American Pattern



#### **Diamond Version**

All forceps are also available in the diamond version. For ordering etc., just add a  ${\bf D}$  to the article number



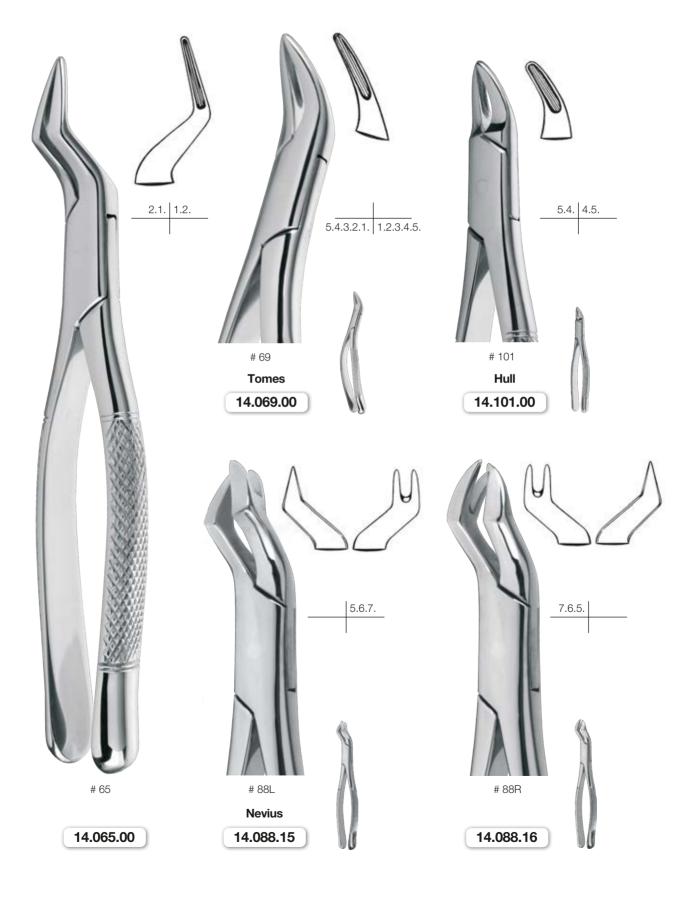
# Extraction 05-21

# Extracting Forceps, American Pattern



+49(0)7464/98880

# Extracting Forceps, American Pattern

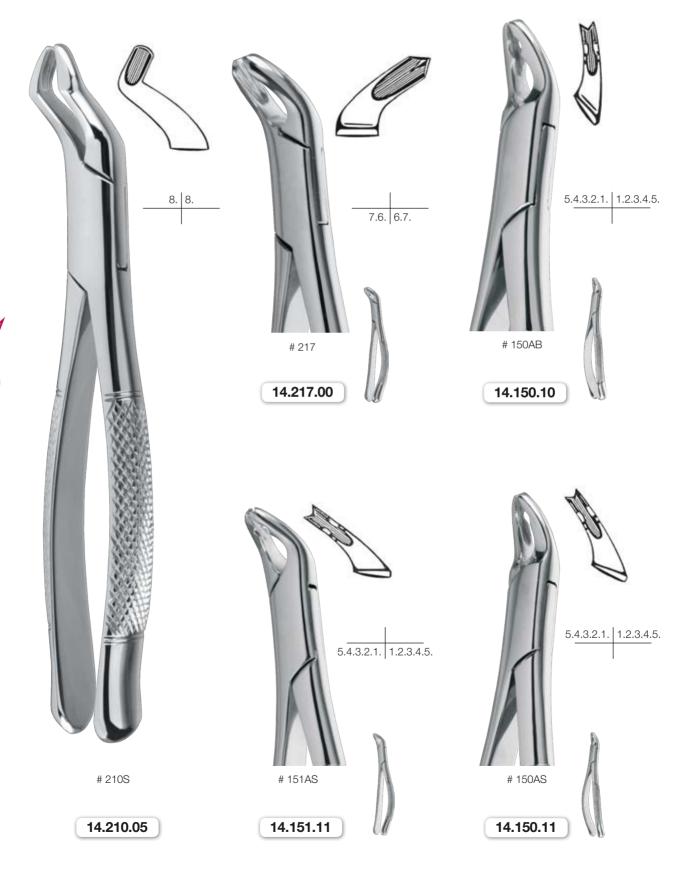




## Extracting Forceps, American Pattern



## Extracting Forceps, American Pattern



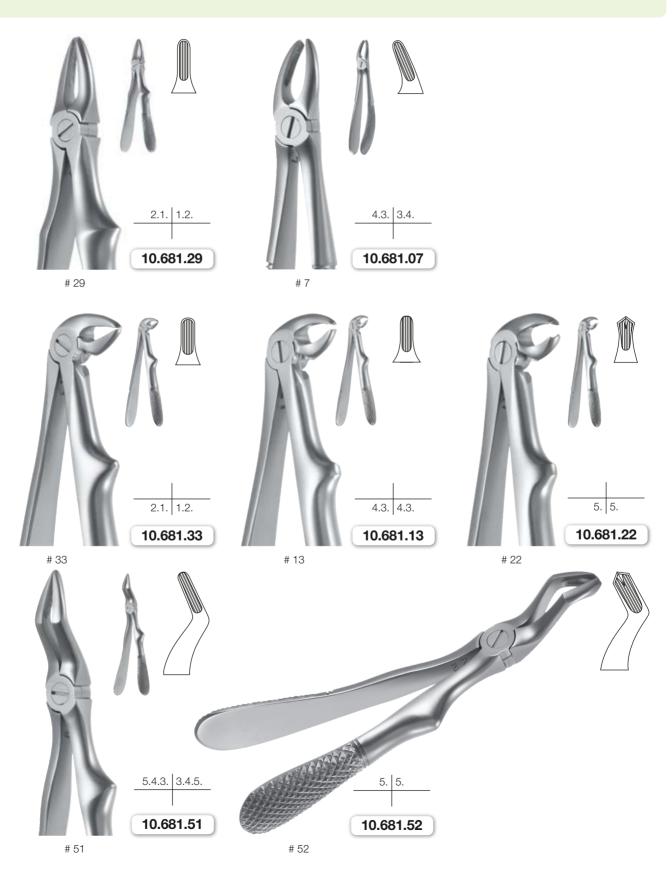
## Extracting Forceps, American Pattern



#### Pedodontic Extracting Forceps

These pedodontic extracting forceps have been designed to be as small as possible in order to avoid frightening younger patients with large, aggressive-looking instruments, thereby providing relaxed working conditions.

#### Further RoBa-Design Pedodontic Extracting Forceps are illustrated on page 05-32!



#### **ZEPF** RoBa-Edition

by dentist Beck

Dedicated to the long-standing employees Mr. Horst Roos and Mr. Reinhold Bacher, who worked for Helmut Zepf for more than 50 years since their time as trainee.

The **ZEPF** RoBa-Edition completes the innovative advancement of the famous zept Xisim Extracting Forceps. It has been developed under the aspects of a secure and gentle appliance.

The problem of tooth fractures during extraction is considerably reduced due to the innovative geometry of the beaks.

The new ONYX coating makes the impact-resistant surface of these extracting forceps almost indestructible.

Compared with other methods, in ONYX coating the carrier material is applied in a more gentle way, as ONYX coating in comparison to other coatings is performed with significantly less influence of heat.

The surface shows excellent sliding features to reliably counteract contamination. An incrustation of proteins etc. is not possible.

The matt-finished black surface not only prevents reflection of the OT light, but also guarantees an optimal contrast in the OR environment during extraction.



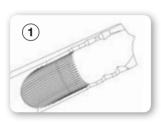


With the patented RoBa-Edition **HELITUT ZEPF** introduces a new generation of extracting forceps. Deduced from the **ZEPF X** isign Instruments the RoBa-Edition has been especially developed in consideration of easy and gentle extraction.

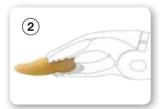
The patented RoBa-Edition according to Dentist Beck is the consequential advancement of conventional extracting forceps with the advantages of the tapered deep-grip extracting forceps. The modified beaks according to Dentist Beck fit exactly on the teeth which ensures a maximum grip in the appliance. These new beaks are available for all figures in upper and lower jaw (incisors, premolars, molars and wisdom teeth).

Due to the fact that all teeth show a convex crown contour (upper jaw: labial, buccal, palatal and in lower jaw: labial, buccal, lingual), the beaks have been developed under this anatomical conditions The handle is a protected design from **HELMUT ZEPF**, which was developed in cooperation with Dr. Maty, Germany.

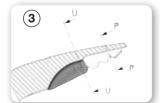




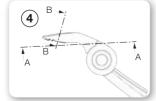
1 The serrated jaws grip onto into the teeth and avoid a "riding" in-between the tooth crown and the inner contour of the beak.



(2) Concavely elaborated inner contours of the forceps beak fit in the convex tooth contour. With deep grip in the alveolus on the neck of the tooth or on the crown, the RoBa Edition ensures a parallel and maximum grip in any situation. Root fracture almost can be excluded.



(3) The different deeply elaborated inner contours ensure maximal adaptation on the teeth in different actualities. No tilting of the teeth while rotary and / or lifting movement.



4 Tapered outside contour of the beak affords deep grip even subgingival.



#### Black Finish Coating

#### Design meets functionality.

Users with highest demands will appreciate the elegant, black finish providing the instrument with a non-reflecting, extremely smooth and scratch-resistant surface. The article number is complemented by TI.



#### Diamond Version

All RoBa-Edition extracting forceps in the classic satin-metallic finished surface are available with diamond coating for a better grip.

The lower part of the \*\*Tesion\*\* Handle is gold-plated. For ordering etc., just add a **D** to the article number.













3.2.1. 1.2.3.

12.234.07Z

12.234.07ZD

12.234.07ZTI



3.2.1. 1.2.3.

12.234.08**Z** 

12.234.08ZD

12.234.08ZTI



12.235.07Z

12.235.07ZD

12.235.07**ZT**I





12.279.90Z 12.279.90ZD

12.279.90ZTI



3.2.1 1.2.3.

12.236.07Z 12.236.07ZD

12.236.07**ZT**I



3.2.1. 1.2.3.

12.236.08Z

12.236.08ZD

12.236.08ZTI



5.4. 4.5.

12.213.00**Z** 

12.213.00ZD

12.213.00ZTI



5.4. 4.5.

12.235.08**Z** 

12.235.08ZD

12.235.08ZTI



7.6.

12.217.00Z

12.217.00ZD

12.217.00ZTI



6.7.

12.218.00**Z** 

12.218.00ZD

12.218.00ZTI



12.267.01**Z** 

12.267.01ZD

12.267.01**ZT**I





7.6. 6.7.

12.222.00Z

12.222.00ZD

12.222.00ZTI



7.6. 6.7.

12.221.90Z

12.221.90ZD

12.221.90ZTI



12.045.15**Z**S

12.045.15ZSTI





12.051.15**Z**S

12.051.15ZSTI

#### **Children Forceps** RoBa-Edition

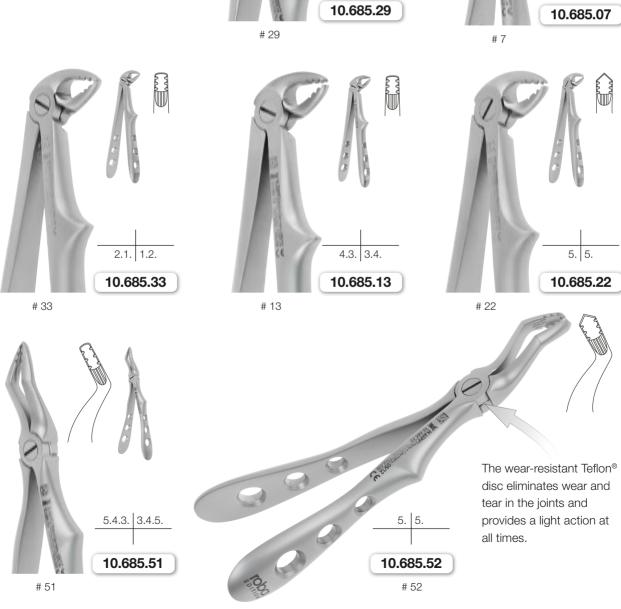
Extracting Forceps modif. by Dentist Beck

These deciduous teeth extraction forceps have been designed to be as small as possible in order to avoid frightening younger patients with large, aggressive-looking instruments, thereby providing relaxed working conditions.

The patented Deciduous Teeth RoBa-Edition Forceps according to Dentist Beck are the consequential advancement of conventional extracting forceps with the advantages of the tapered deep-grip extracting forceps. The modified beaks according to Dentist Beck fit exactly onto the teeth which ensures a maximum grip during the appliance.









# **exi** Extracting Forceps











# 34

3.2.1. 1.2.3.

15.034.00







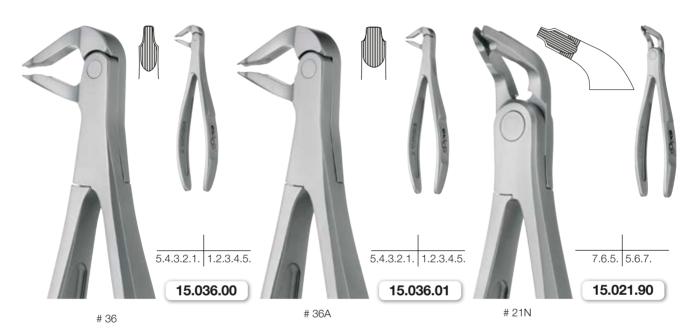


Extraction 05-35

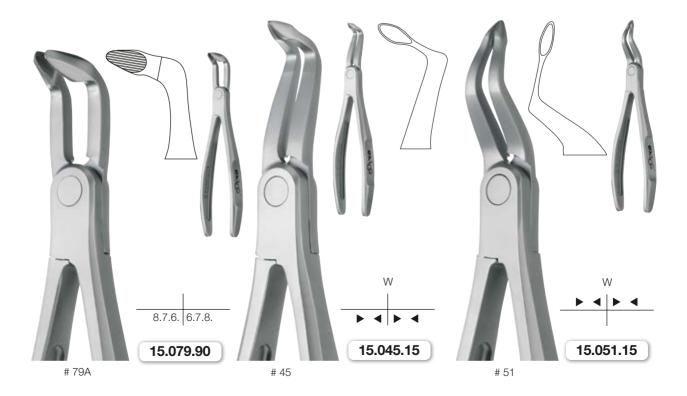
The **exigs** Forceps offer an excellent anatomic fit and only need enough pressure so they do not slip out of the hand. The forceps guarantee a balanced axial luxation, better periodontal fibre dilatability and increased sense of touch. They reduce traumata of surrounding tissue.

The assimilated handles allow an individual and equal power transmission for left- and right-handed surgeons during pressing, pulling and turning movements.

Due to the smooth handles and the possibility of dismantling, the exics Forceps can be cleaned extremely well. So there are no hygiene-critical areas any more like they are known from forceps with conventional lock. Especially with automatic reprocessing in a washtray the disassembly is a great advantage as they need less space.













#### **ZEPF** EXLOG RoBa Edition Extracting Forceps

With the new **exics** RoBa Edition **ZEPF** introduces a new generation of patented extraction forceps. Two patented extraction forceps are combined into one.

The EXLOG Forceps characterized by the fact that it's easy to disassemble and the RoBa characterized by its patented jaws.

It made sense to combine both patents as the combination results in a type of forceps which is easier to clean than ever before and additionally offers the dentist a functional extraction tool which leaves no desire unfulfilled.

These patented forceps are the consequent development of conventional forceps with the advantage of tapered and deep grip extraction forceps. The modified jaws exactly match the tooth and guarantee a maximum grip during the application.







# 05-38 Extraction

**ZEPF** EXLOG RoBa Edition Extracting Forceps













15.234.07D

# 34N









15.217.00

15.217.00D # 17



15.218.00 15.218.00D # 18



15.267.01

15.267.01D

# 67A



8. 8.

15.279.90

15.279.90D

# 79A





15.236.07

15.236.07D

# 36N



3.2.1. 1.2.3.

15.236.08

15.236.08D # 36M



5.4. 4.5.

15.213.00

15.213.00D

# 13



7.6. 6.7.

15.222.00

15.222.00D

# 22







#### **ZEPF** EXLOG RoBa Edition Extracting Forceps

This new development involves all figures for maxilla and mandible (incisors, premolars, molars and wisdom teeth).

As every tooth shows a convex crown shape (maxilla: labial, buccal, palatal – in the mandible: labial, buccal, lingual), the jaw was developed according to these anatomical conditions.

- excellent anatomical adaption on the neck of the tooth surface
- tapered jaws for less traumatization and for conservation of the alveolus
- better fibre dilatability and increased sense of touch
- optimal cleaning due to the possibility to disassemble the forceps into two pieces (RKI compliant)
- long life time, patented, high precision joint for radial and axial pressure
- produced from one piece (5-axis CNC milling) and therefore ultra precise
- no maintenance of the joint





# The following problems might occur if the extraction forceps are not suitable:

- root fracture
- crown fracture
- damage of the soft tissue caused by bruising
- damage of the alveolar ridge and the buccal bone lamella



#### Advantages of deep-grip extraction forceps:

- due to the specially shaped jaws it is easy to place the forceps subgingivally directly on the root (below the gingival margin)
- parallel contact on the root
- atraumatic, as the soft tissue is not bruised
- root fractures are avoided
- slim jaw design for subgingival grip without bruise of the soft tissues

THE ORIGINAL

11.855.01Z

#### **X**tod Instruments











17.007.01

In the illustrations an extraction under use of the **X**tod Instruments is shown.

IMPORTANT: Complete removal of all inflammable and convective tissue structures.

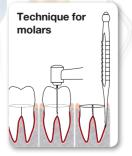
- (1) Initial loosening of the desmodontal fibres. Apply the X-Desmo-Tool first approximally then buccally and palatinally (pencil handle).
- 2 Then progressive luxation with the X-Luxa-Tool (first narrow then wide). Ideal positions: Approximal (mesial or distal) to the tooth which should be extracted!
- (3) Complete luxation of an upper right molar with support of a wide X-Luxa-Tool. Gentle extraction without root fractures!
- 4 Inspection of the empty tooth socket and curettage with support of the X-Spoon.















#### **X**tod Instruments

DBGM acc. to Dr. Detlef Hildebrand

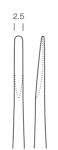
## THE ORIGINAL

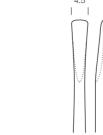
The implantology with immediate insertion after the tooth extraction is more and more a focus of interest in modern dentistry. It appears to be more than necessary to protect soft and hard tissue structures already during the extraction phase and to follow the principles of minimal invasiveness. Here is an ideal complement for this:

The Xtod Instruments! In contrast to existing instruments this clearly arranged and universal Xtool Set supports you during the gentle and uncomplicated extraction of teeth which cannot be preserved.

#### Modern therapy methods require modern instruments!

- Color coding for clear handling.
- Universal and complete extraction instruments in one tray.
- Ergonomic handle design (pencildesign) prevents unintended slipping during usage.
- Direct and controlled power transmission to prevent tooth and root fractures.
- Non-traumatic tooth extraction without injuring surrounding structures.











green metallic

jaw,





























curved 17.007.03

17.007.03TI



#### Design meets functionality.

Users with highest demands will appreciate the elegant, black finish providing the instrument with a non-reflecting, extremely smooth and scratch-resistant surface. The article number is complemented by TI.

straight

17.007.01

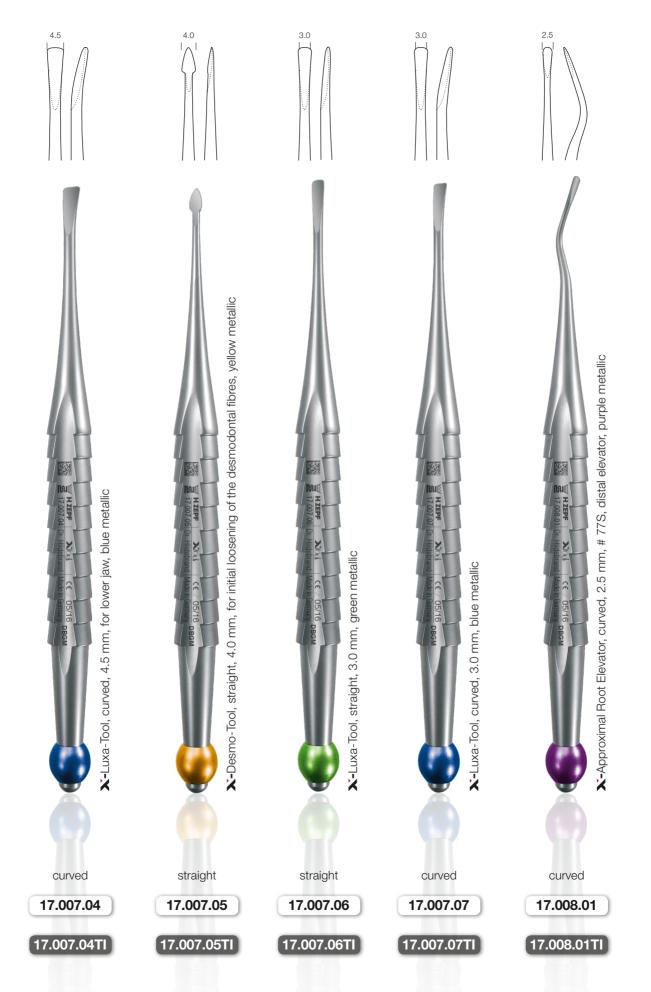
17.007.01TI

17.007.02

straight

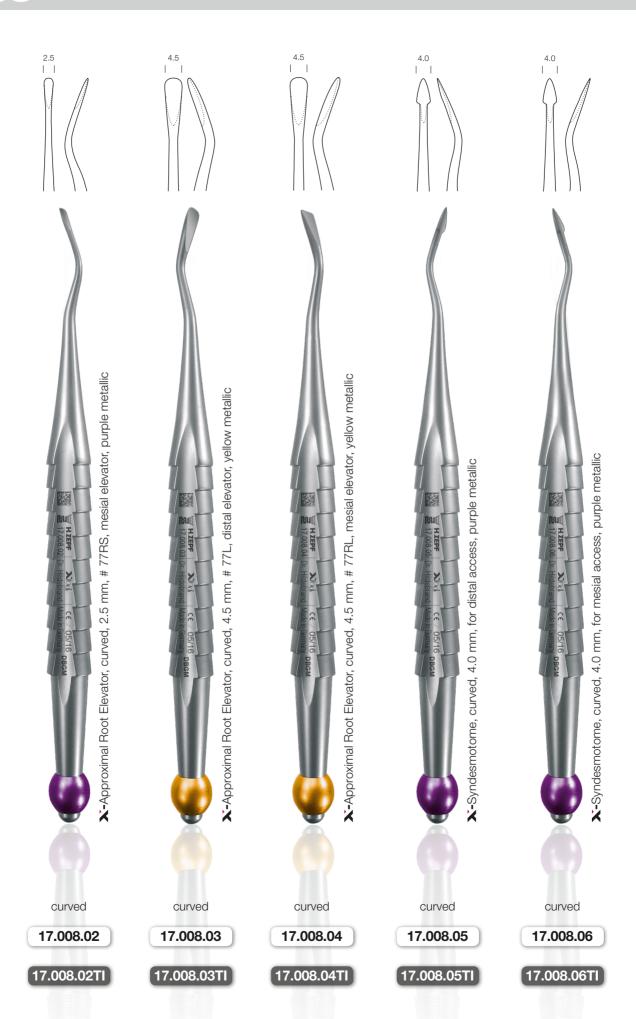
17.007.02TI

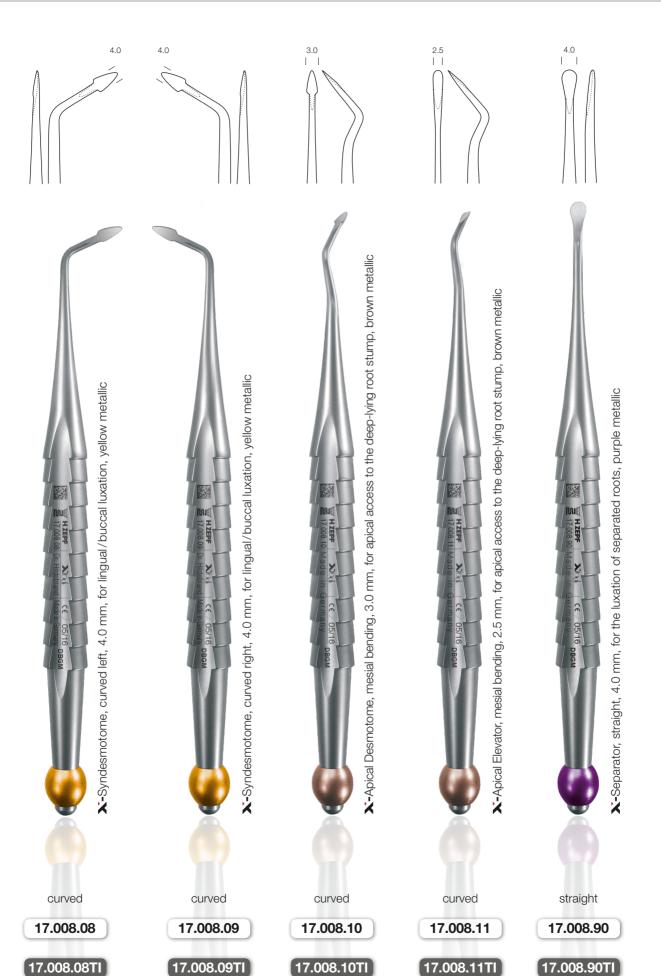














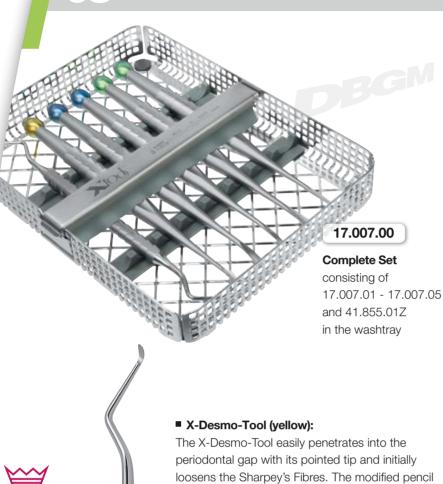


#### Content: H-Tool Set

Illustration	Article Description	Description
	H-Tool Set acc. to Dr. Hildebrand organized in a washbasket, including a Ferrozell hammer and H-Tools, consisting of:	Complete set
	41.503.01  Hammer, Ferrozell head Ø 35 mm, 100 g, total weight 180 g, 250 mm long, fitting washbasket	1 piece
N AND THE COMPANY	17.009.01  H-Tool #1, straight, tip 3.5 mm, green ball	1 piece
W STOL WALLEST CO.	17.009.02 H-Tool #2, straight, tip 2.5 mm, green ball	1 piece
	17.009.05  H-Tool #5, straight, tip 3.0 mm, gold colored ball	1 piece
	85.195.00  Washbasket 1/1 as rack for the remaining components	1 piece
	85.181.04  Profile, high, universal 130 mm / for 8 instruments	2 pieces
18881	85.181.05	2 pieces

Profile, high, universal 81 mm / for 5 instruments





The X-Desmo-Tool easily penetrates into the periodontal gap with its pointed tip and initially loosens the Sharpey's Fibres. The modified pencil handle and the handy shaft shape offer a depth sensibility like never experienced before without destroying related structures.

#### ■ X-Luxa-Tool-3 (blue):

bent + narrow for tooth loosening

#### ■ X-Luxa-Tool-1 (green):

straight + narrow:

A delicate and controlled power transmission guarantees a specific loosening and luxation of the tooth without any risk of crown or root fractures. **Ideal position:** approximal (mesial or distal) to the tooth which is to be extracted.

#### ■ X-Luxa-Tool-2 (green):

straight + wide:

Complete, non-traumatic luxation of upper molars (e.g. tooth 16). The ergonomic instrument shape ensures a gentle extraction without tooth fractures or any damage to the alveolar wall.

#### ■ X-Luxa-Tool-4 (blue):

bent + wide: for tooth luxation

#### ■ Lucas Schaber **ZEPF**-Line:

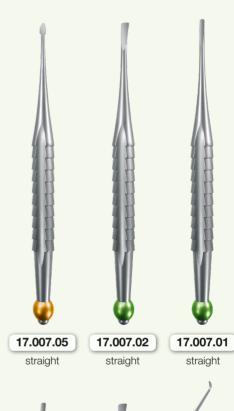
Inspection and curettage of the empty dental alveolus. Complete removal of all inflamed and connective tissue fibres.

#### **ZEPF-X**tod-Tray

DBGM acc. to Dr. Detlef Hildebrand

#### "Extraction in its most pleasant way"

The **ZEPF-X**iod-Tray offers a universal instrument set for medical tooth extraction. The **X**iod instrumentation includes six different instruments:







41.855.012 Lucas Scraper, 2.5 mm, double-ended, 17.5 cm

#### **ZEPF FLEX-EX** Power Periotome



While using new materials, we were successful in the development of the **ZEPF FLEX-EX** Power Periotome, a symbiosis of Power Periotome, Elevator and Xtool.

The flexible working tip will enable you to build up a phenomenal pressure for the luxation in a radial direction and a perfect match to the contour of the tooth at the same time without bending. The name stands for the excellent product features united in this instrument.

#### **ZEPF** Power Periotome

The Power Periotomes allow a gentle loosening of ligaments in the sulcus.

The handle allows optimal power transmission and controlled luxation.





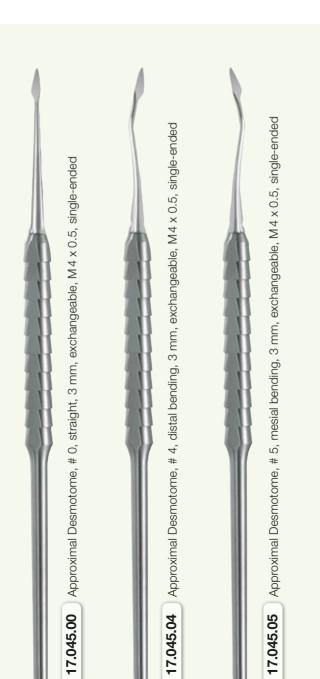
#### Ergonomical and heavy

Heavy, ergonomic handle design with exchangeable tips, for optimal access to all quadrants.





26.182.00





Hemingway Sharp Spoon, double-ended, exchangeable, stainless steel, ZEPF-Line

#### **ZEPF**-Line 2 in 1 Periotomes

The 2 in 1 Periotomes acc. to Dr. Karl-Ludwig Ackermann are saving time as they are reducing the annoying exchange of instruments.





**26.182.24** Periotome P4 / straight Sharp Spoon Ø 3.0 mm **ZEPF**-Line, double-ended, exchangeable inserts

#### **ZEPF**-Line Periotomes

#### For the Separation of the Sharpey's Fibers in the Sulcus

Before the usage of any root elevator or extraction forceps it is necessary to separate the Sharpey's Fibers in the sulcus with a periotome in order to do an atraumatic tooth extraction. To do so, the periotome is to be pulled through the sulcus.

The correct application saves the gingiva and the periosteum. The special design in the grip area guarantees a pleasant grip and extremely easy handling.





#### Root Elevators

Root elevators are used for the surgical tooth extractions. They are used to luxate the tooth in the osseous alveolus and to expand the alveolus walls. They are also used to open the gingival sulcus prior to the tooth extraction.

Straight instruments are used in the anterior region and in the maxillary area. Curved root elevators are ideal for the back teeth in the mandible.

#### The Workmanship

The shafts of **HELMUT ZEPF** Root Elevators are welded onto their hollow handles, and each and every one is checked for leakage at their welded joints.

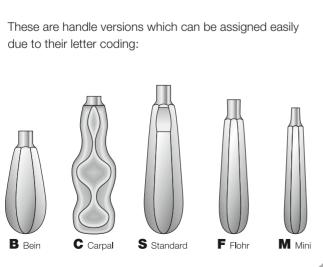
This manufacturing method virtually eliminates the leakage compared to cheap root elevators with pressed-in shafts.





#### The Handle Versions

Except for the Xtool-Series, the Elevators from **HELMUT ZEPF** mainly differ in their 5 different handle designs such as: 'Bein', 'Carpal', 'Standard', 'Flohr', 'Mini'.





# Extraction 05-53

#### Modified Root Elevator Beck



# 2.8 mm (S) 17.200.01 (S) 17.200.02 3.5 mm







The elevator works during the luxation step with 5-7 supporting points (Hypomochlion), which avoids slipping through because of the different surfaces around the radius, instead of a common round-edged instrument, which works with 1-2 supporting points only.

This makes the Beck Root Elevator much more effective.



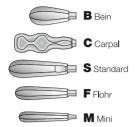


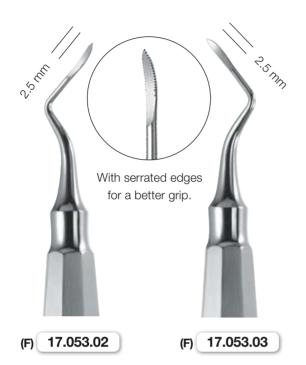




- (1) Because of the elliptical shape of the instrument tip, it is easy to penetrate the interdental space with this instrument.
- 2 Due to the shape, by turning the instrument through 180° it is possible to luxate in four directions: 2 x mesially and 2 x distally.
- (3) Attention! These instruments must not be used as a lever, as shown e.g. in picture 3. Due to the special shape, an over-strengthening of the tip can cause breakage. We cannot be held responsible for damages caused by improper use.







#### Heidbrink Root-Splinter Elevators

All-purpose instruments for gently extracting root splinters.

Straight (without picture):

17.051.01 (M)

17.052.01 (S)

Angled:





P.S. MA

17.051.03 (M) 17.052.03

**(S)** 

**ZEPF**-Line Heidbrink Root-Splinter Elevators

The fine working tips of the Heidbrink Root-Splinter Elevators allow the palpation and mobilization even of small root remnants.

**Example for** serrations:



2.0 mm

17.055.01 Heidbrink 17.056.01 Heidbrink, serrated

17.055.02 Heidbrink 17.056.02 Heidbrink, serrated

17.055.03 Heidbrink

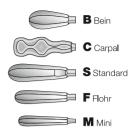
17.056.03

Heidbrink, serrated



#### Root Flevator No. 195

The drop-shaped, blunt working end makes the new **ZEPF** Root Elevator No. 195 ideal for the separation and luxation of roots. The tapered working end allows its special use in the molar region in all quadrants. It can also be used for initial loosening of the desmodontal connection.



Due to its geometry and smooth luxation and rotary motion, the root fragment to be removed will be moved very easily in "crestal direction" (in relative terms!). The luxated fragment can therefore be grasped easily with deep-gripping forceps or with Luer bone rongeur forceps.

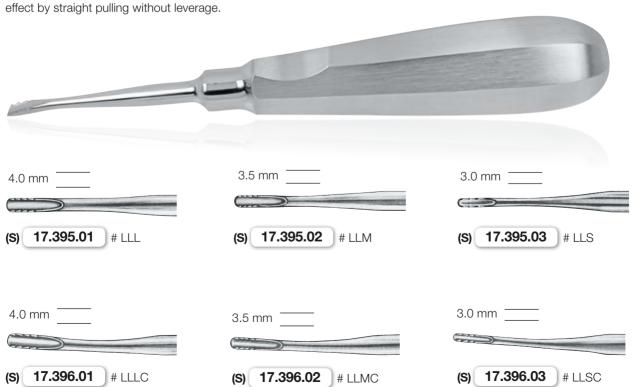


Picture: Courtesy of Dr. Florian Steck

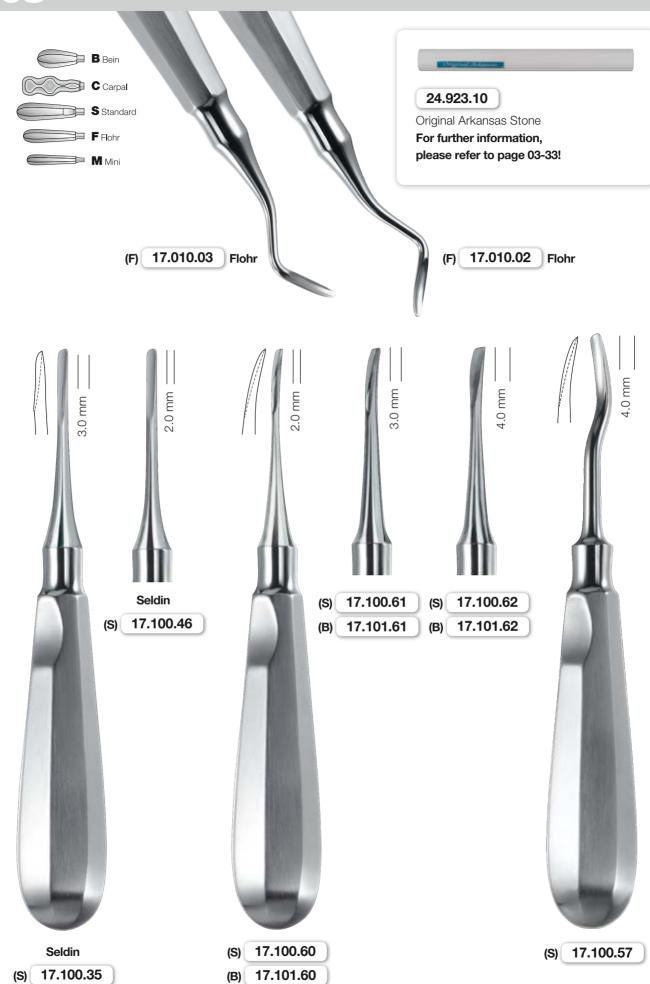


#### Lindo-Levien Root Flevators

The LINDO-LEVIEN Root Elevators are pushed into the periodontal gap in apical direction until the serrations will grip on the roots. The root is extracted via a barb effect by straight pulling without leverage.







#### Elevators for axial luxation

These elevators for axial luxation have been developed as an alternative to classic elevators. The instrument must not be used as a lever.

Furthermore the gentle removal of the teeth should be reached by axial luxation and cutting the Sharpey's fibres.











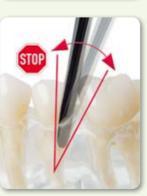






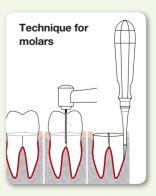


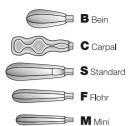












#### Gärtner and Hylin Root Elevators









(B) 17.014.00





17.410.03

**Chompret Syndesmotome,** # 3 with hollow handle



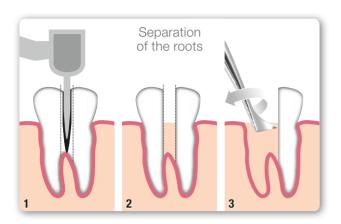






### Root Elevators Cryer and Winter

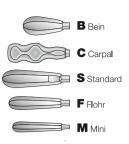
Claw elevators are ideal to extract molars in the mandible after separation of the roots.



The bend of the working ends, combined with the shortened tips, allows a gentle lifting of the opposite root without contact to the neighboring crown.

The special claw elevators are ideal to luxate roots if an apical access is possible from the neighboring alveolus, e.g. if a root has already been removed and if the empty alveolus can be used as access. It is recommended first to remove the root which is bent less.







Winter, Root Elevator, right, # 12R

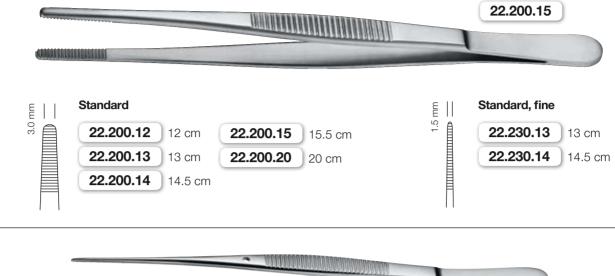
17.337.16





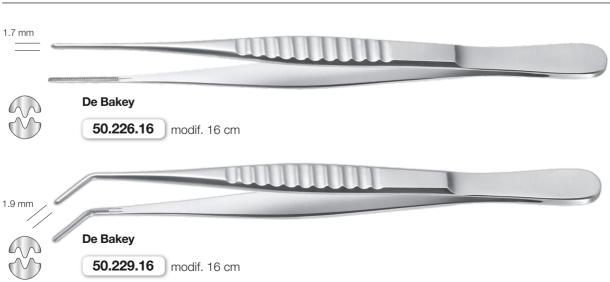


### The **ZEPF** Forceps









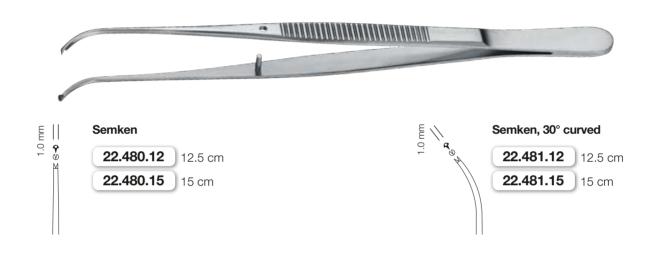
### Atraumatic Tissue Forceps acc. to Dentist Beck





22.824.17 17.5 cm

Due to their specially shaped working tips, the Tissue Forceps allow an easy and gentle grip and fixation of the tissue flap. There is no additional traumatism of the soft tissue. The Atraumatic Tissue Forceps can be used in all fields of dentistry and odontology (in surgery, parodontology and implantology).







#### Tissue Forceps, fine, 1 x 2 teeth

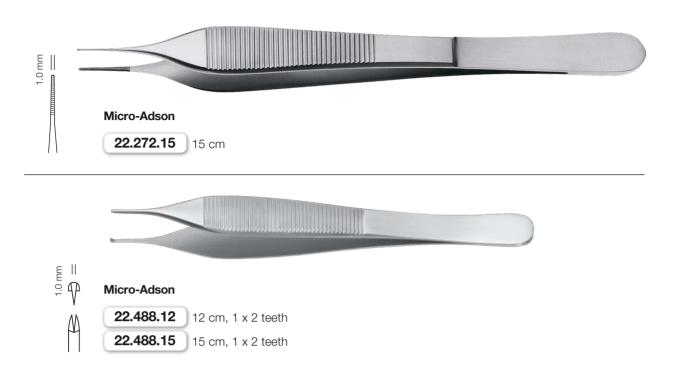




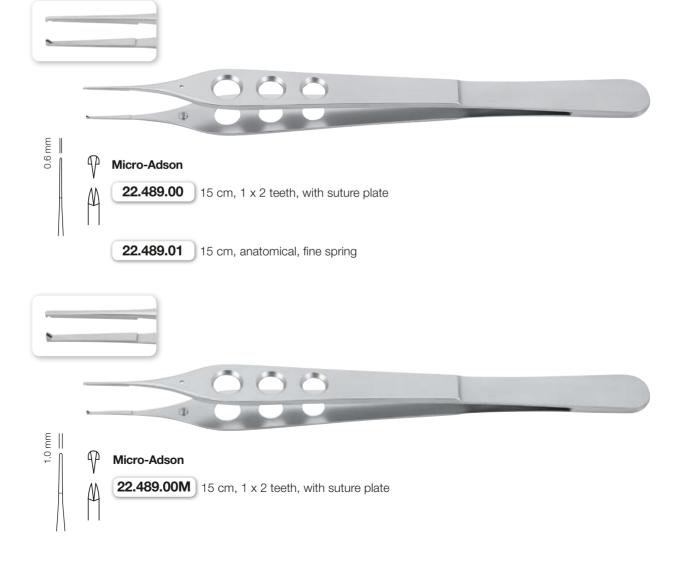


Tissue Forceps, standard, 1 x 2 teeth

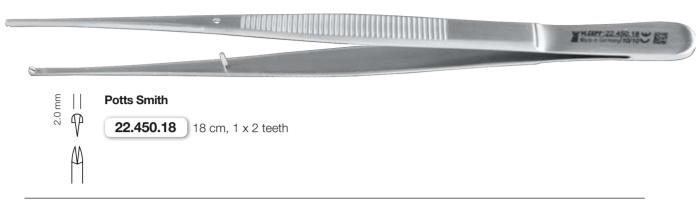








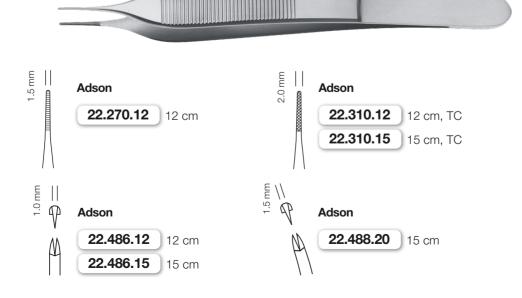






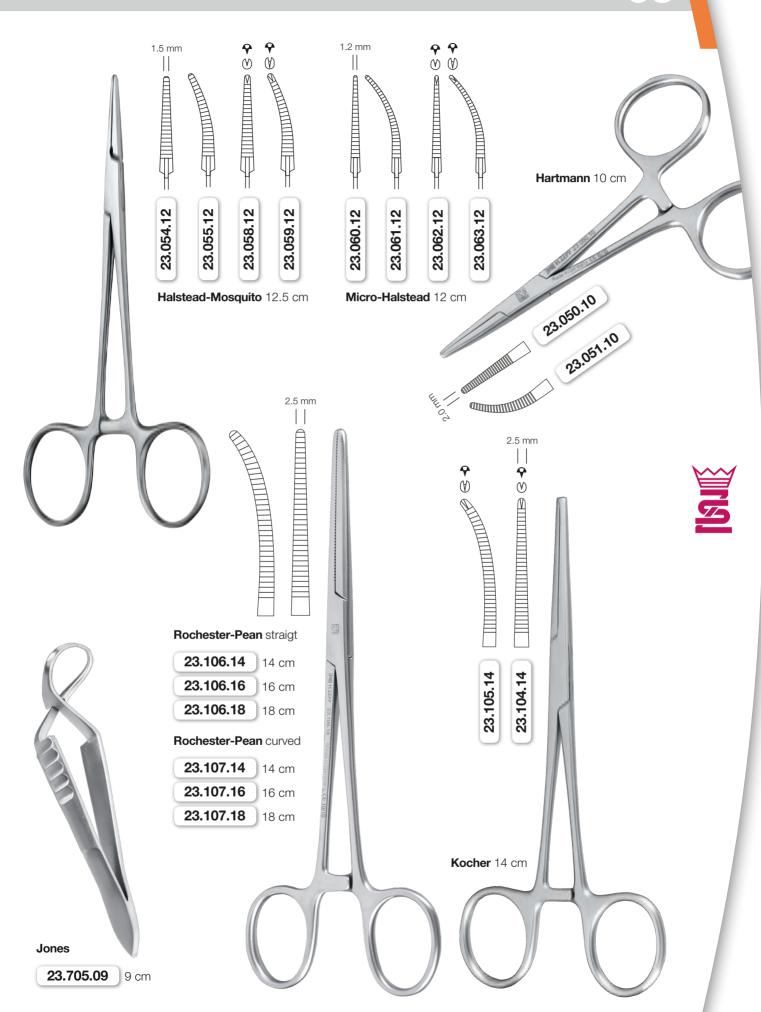






+49 (0) 74 64 / 98 88 0





#### The **ZEPF** Retractor

pat. pend. by Dr. Peter Müller, Ebersbach



#### Clear, non-tiring retraction in every situation

Retraction of the cheek, lips, tongue and mucoperiosteal flap. The **ZEPF** Retractor is a "quality product from Tuttlingen" and bears the name **HELMUT ZEPF** as seal of quality.

- ergonomic handle
- low-weight, very well-focused instrument
- innovative design
- multipurpose usage
- good view
- smooth surface, manufactured from one piece
- all common disinfection and sterilization methods possible









37.445.01 Hilger

24.089.02

Mouth Mirror Handle, ergonomic, hollow, stainless steel

Retractor, for all Mouth Mirror Handles Ø 2.5 mm





Vestibulum Retractor acc. to Dr. Müller, Tuttlingen

Working end made of stainless steel, handle M4.5 mm, Dr. Ti, made of titanium.

The Vestibulum Retractor acc. to Dr. Müller, Tuttlingen can be used in the dental field for all activities for which it is necessary to have a very good view as well as the best possible dryness.



The application in periodontology as well as in oral surgery is possible as the Vestibulum enables you to retract a complete quadrant. This offers a very good view on your field of work. The instrument can also be used to model the edges in the acrylic technique. The relative drying is possible with one hand which offers a better moulding.

The instrument can be used in many ways and is very easy to apply. This makes it very economical.

37.444.01



## Special features of the Maty Cheek and Lip Rectractors:

- suitable for a wide variety of applications
- lightweight
- easy to use
- patient-friendly
- no traumatization of the oral cavity
- usable on upper or lower jaws
- ergonomically designed, saves time, thereby cutting costs
- does not need to be removed when work is interrupted since design prevents the dropping out

#### Maty Cheek and Lip Retractor

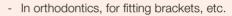
The light weight, versatility and anatomically shaped jaws of this instrument makes it suitable for use in a wide variety of applications in all areas of dentistry.

In prosthodontics, for safe impression technique, determining upper/lower jaw mismatches, fitting crowns, bridges, inlays, etc





Maty Cheek and Lip Rectractor, 17.5 cm



- In general dentistry, for filling teeth, root-canal work,
- In oral surgery, for outpatient surgery (apicoectomy, osteotomy, tumor and bone surgery, etc.), preprosthodontic surgery, traumatology, implantology (enossal implants, sinus lifting, GBR techniques, etc.)





#### Quality MADE IN GERMANY.

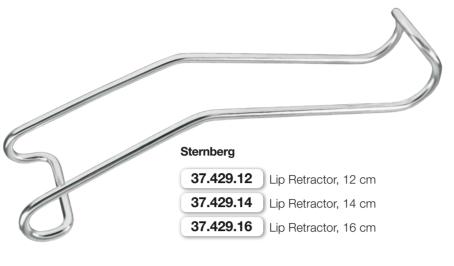
Our all-purpose cheek and lip retractor is yet another top-quality, high-precision, all-purpose instrument "Made by **HELMUT ZEPF** Medizintechnik GmbH".



19.270.50

Replacement Inserts for

Denhart Mouth Retractor (1 pair)



#### Kim Retractor

The Kim Retractor is very useful to retract the soft tissue flap in a wisdom tooth extraction. The working end is rounded, angled by 45° and serrated in the support region, thus allowing an optimal access to this

area under excellent





**Denhart** 

**Mouth Retractor** 

37.271.00

11 cm, with

exchangeable

silicone inserts



#### 37.446.04

Retractor acc. to Kim, flat, 45° angled, 10.5 mm wide









Wieder Tongue Depressor

**37.426.01** # 1, small

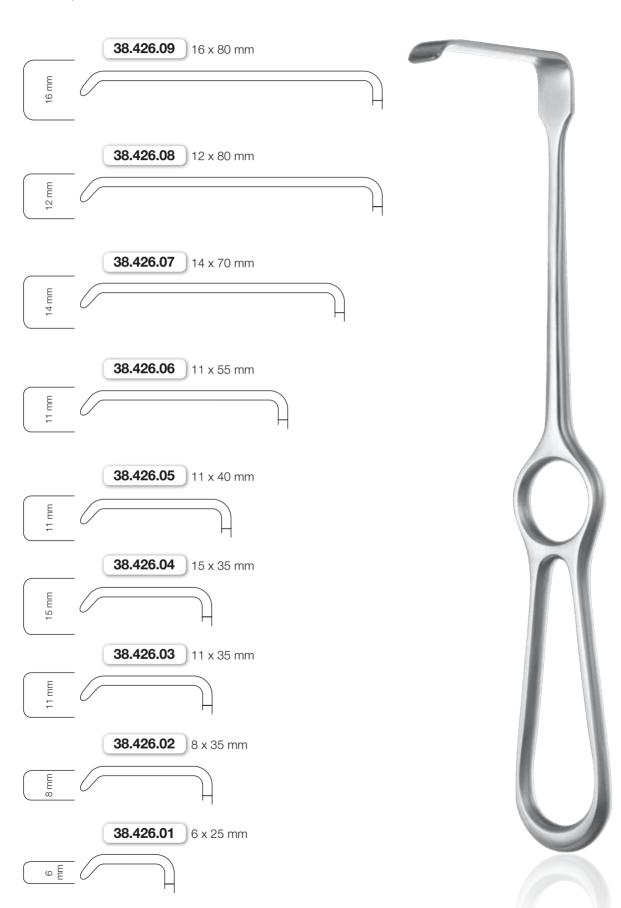
Rimines of Chi

**37.426.02** # 2, big



### Kocher-Langenbeck

Retractor, 21.5 cm



### Langenbeck

Retractor, 21 cm

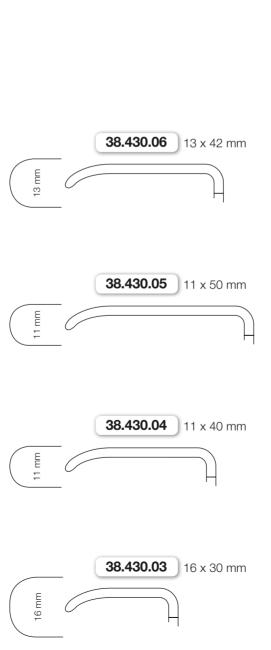
# Combined Retractor and Cheek Retractor by Schäfer

#### 1 instrument – 2 functions!

The combined retractor is suited for an optimized retraction of laps and the cheek during surgery like implantations and root-tip resections.

Schäfer Retractor and Cheek Retractor

**37.440.00** 23 cm











### Laster Special Retractor

Special retractor for upper impacted wisdom teeth

The shape of the handle allows to retract the cheek and the mucoperiosteum and to hold another instrument in the same hand simultaneously.



#### 37.438.15

Laster special retractor for upper impacted wisdom teeth, sandblasted handle, polished working tip and micro serration, 100 mm

### **ZEPF** Vestibulum Retractor



The **HELMUT ZEPF** Vestibulum Retractor according to Kapogianni is mainly used for the region of the lateral teeth in the upper jaw.



It is meant for the atraumatic holding of the prepared mucoperiosteal flap which is usually retracted in the area of the crista zygomaticoalveolaris. The crista often develops a distinctive osseous bow which makes it impossible to hold it away with a straight retractor.

This instrument is of great advantage especially during operations like the direct sinus lift, big augmentative interventions or other operations in the area from the cuspid to the rear lateral teeth.

Because of the three-dimensional arrangement of both retracting elements of this Vestibulum Retractor, the mucosa is retracted safely and a trauma due to continuous slipping is excluded. Of course, this retractor can be used for anatomically similar bone structures for safe and atraumatic working.

#### 38.448.50

#### **Vestibulum Retractor**

by Kapogianni, to retract the prepared mucoperiosteal flap



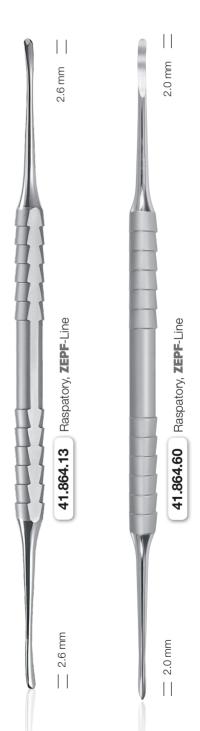


### **ZEPF**-Raspatories

#### Perfectly done.

**HELMUT ZEPF** Periosteal Elevators have a well-balanced design. The lame-design handles have a very handy shape. They are extremely easy to rotate, and due to the smooth surface, hygiene problems known from conventional handles are avoided.







#### Prichard

#### An arrester and raspatory, all in one.

Usable in all types of periodontic surgery, osteotomy, or root-tip resections. Its sharp, rounded tip is used for preparing papilla/loose tissue for excision. In periodontic treatments, its blunt tip allows arresting several flaps of loose tissue simultaneously. The curvature of its blunt tip makes it also a popular choice for osteotomies in the molar area (8-area), as well as for mirror raspas, since its contacting surfaces are highly polished. Lingual surfaces may be very easily reached.



## Glickmann

#### **Periosteal Elevator and Flap** Knife in one instrument.

The flap knife is as sharp as a scalpel. (It has to be resharpened regularly!). Small additional cuts can be made in the interdental area. You do not have to switch to a standard scalpel. The delicate, round and sharp working tip is used to peel off / to cut the flap.

#### Combination-Instruments

Spiculum Raspatory and round Periosteal Elevator, 17.5 cm







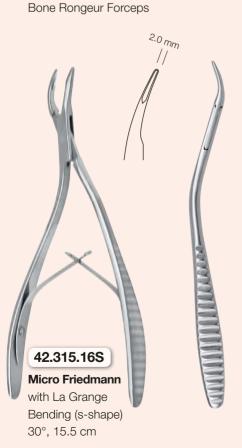


### Micro Friedmann

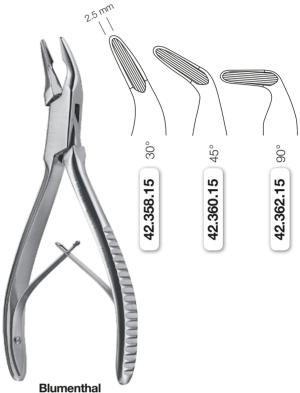
Micro Bone Rongeur Forceps



Micro Friedmann



### Bone Rongeur Forceps

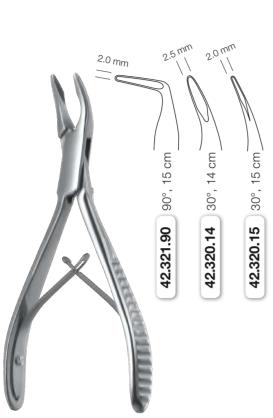


Bone Rongeur Forceps, 15.5 cm



Bone Rongeur Forceps, 15 cm

### Bone Rongeur Forceps



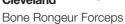
Mini Friedmann Bone Rongeur Forceps



Beyer 18 cm Bone Rongeur Forceps, double action









Zaufal-Jansen 18 cm Bone Rongeur Forceps, double action

### Bone Cutting Forceps









#### Controlled dropping of the blade

46.007.02

### **ZEPF** Blade Holder ■ Drop-Control ➤

The **ZEPF** Drop-Control® Blade Holder combines the design of the regular blade holder 46.007.00 with a new and revolutionary function. With reference to the mechanism of a ball pen, the blade will be dropped off by pushing the button at the end.

The object of this development was a simplified application with the same diameter of the blade holder. Therefore there is no need to adapt to a new application / ergonomics for our regular blade holder! The **ZEPF** 'Drop-Control®' Blade Holder perfectly fits into our **ZEPF** Design product range for surgery, implantology and microsurgery thanks to its diameter, design and ergonomics.

By pressing the button at the end of the blade holder the mechanism which lifts the blade is triggered off. The blade is pushed forward so that it falls safely and controlled in a tray or cup.

Afterwards the one-hand ejection function moves back in its initial position. After cleaning and sterilization you can insert a new blade – as usual.

The advantage lies in the fact that the used blade can be removed in a safe and controllable way in order to prevent a contaminated injury or infection.





## 06-28 Oral Surgery

### Scalpel Blades

Supplied in packs of 100 pieces, sterile



46.014.11\*

Scalpel Handle ZEPF-Line, straight, for blades # 10 -15, 14.5 cm

46.007.00

46.014.12\*





46.014.15\*



46.005.65

This practical tool allows safe replacing of scalpel blades.



Place the blade remover



Press the blade remover



Lever the blade upwards



Pull the blade forward and throw it in a



46.014.10\* # 10









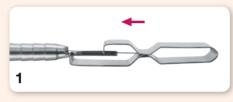




#### Klingex

46.005.70

Safety Blade Remover



Place the blade



Lift the blade by pressing



Pull the blade forward

### Micro Surgical Scalpel Blades

Supplied in packs of 25 pieces, sterile









Scalpel Handle, #3, massive, 12.5 cm

46.010.03

Scalpel Handle, solid, #3, for blades no. 10 - 15 including scale 0 - 6 cm

46.010.04



#### **ZEPF**-Line Instruments acc. to PD Dr. Weng, 17.5 cm





46.035.00

Papilla Elevator for preparation of fine soft tissue structures, inserts, exchangeable

Gingiva Retractor

41.864.20

INU H.ZEPF 41.864.20

many C€ 03/14 Ess

**ZEPF** 3D-Blade Holder



#### 3D-Blade Holder

Our **HELMUT ZEPF** 3D-Blade Holder will allow you to position blades easier than ever before!

In designing this blade holder, particular attention was devoted to make it easy to use, clean and sterilize.

46.007.05

3D-Blade Holder Handle **ZEPF**-Line, 12.5 cm

46.007.50

Pivoted Head for 3D-Blade Holder, exchangeable, incl. Allen Key, AF 2.0

46.007.10

3D-Blade Holder Handle with Pivoted Head, 12.5 cm

46.007.11

Allen Key, AF 2.0



Attachments acc. to Dr. Hildebrand, Berlin

**Blade Holder** 



46.007.20

for standard blades # 10-15

**Gingiva Retractor** 



46.007.30

small



46.007.31

big





€ 12/14

46.035.05

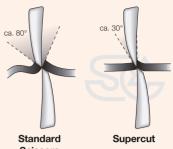


### What is \$\sigma\_2^2 ?

SC stands for "Supercut" and means that scissors with that designation have been specially ground, not only to make them sharper than ordinary scissors, but to yield a much better cutting angle (cf. the accompanying illustrations). One ring is golden.

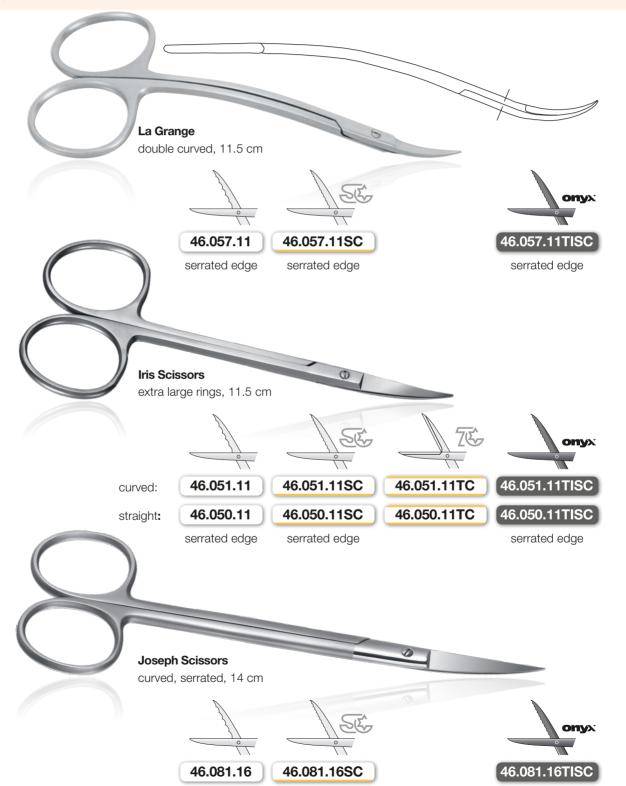
### What is \( \frac{76}{2} ? \)

TC stands for "Tungsten Carbide", a material whose superior strength wear resistance and hardness are its major properties that distinguish it from conventional materials. Both rings are golden.



Scissors

serrated edge



serrated edge

serrated edge



# Fine Preparation Scissors

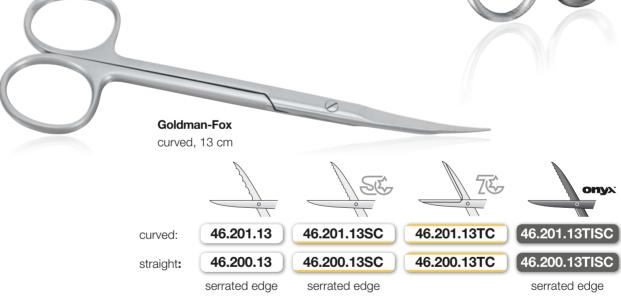
The curved blunt Preparation Scissors are used for preparation in the least traumatic way of separating tissue into connective tissue layers.

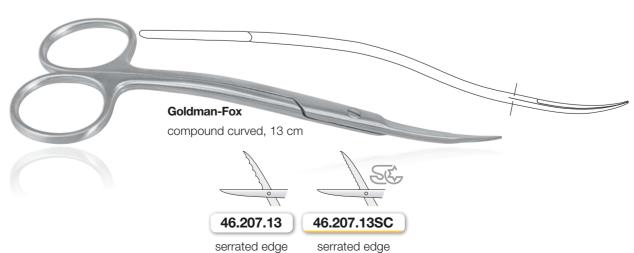
The surgeon pushes the scissor parallel to the skin or to the level of the layers which should be separated (picture 2), opens the scissor and pulls it back in an opened position.

The tissue layers are separated by spreading movements of the scissor blades and the required layer is opened (picture 3). The tip of the scissor is usually facing the less sensitive structures.

In the second instance the scissor is used for cutting.



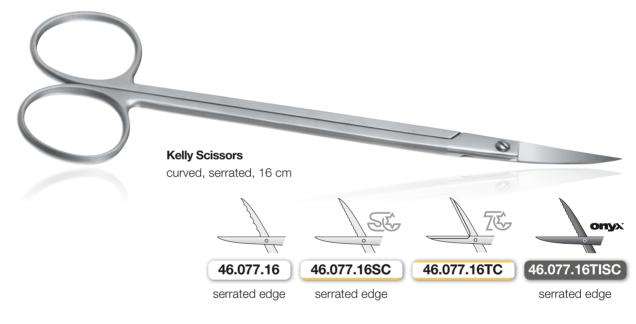














46.431.14SC 46.431.14

serrated edge serrated edge



46.431.14TISC

serrated edge







#### Lichtenberg

The inside of the blades of our Lichtenberg Needle Holders is especially constructed with a scooped-out design to reduce weight to a miniumum. This also improves the balance.

#### Lichtenberg-Ryder 3/0 - 4/0

17 cm:

straight, with detent and latching mechanism



41.318.17TC

17 cm:

41.317.17TC





41.310.14TC

14 cm:

17 cm:

41.310.17TC

straight without TC

41.262.14 14 cm:

41.262.17 17 cm:

14 cm:

41.264.14

17 cm:

41.264.17



16 cm:

41.368.16

18 cm:

41.368.18



### Needle Holder

#### **Swedish Model**

A very fine needle holder which can also be used as micro needle holder. The flexible grip ends increase tactile feeling and reduce the "cracking" of the

three-step lock.

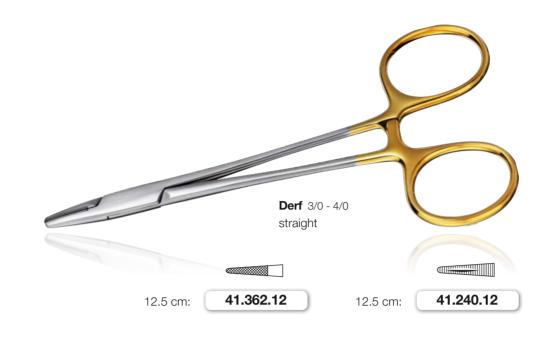


15 cm:

41.246.15TC











**Crile-Wood** 3/0 - 4/0 straight 41.250.15 41.252.15TC 18 cm: 41.252.18TC 15 cm: 15 cm:



Curved, with slot against sucking in, 17.5 cm

19.649.15

Ø 1.5 mm

19.649.30

Ø 3.0 mm

19.649.50

Ø 5.0 mm



The specially bent Sinus-Line Aspirators with titanium tip were developed by Dr. Maty.

19.651.15

Surgical Aspirator, titanium tip, Ø 1.5 mm

19.651.30

Surgical Aspirator, titanium tip, Ø 3.0 mm

19.651.13

Surgical Aspirator, with slot, titanium tip, Ø 1.5 mm

19.651.14

Surgical Aspirator, with slot, titanium tip,  $\varnothing$  3.0 mm

anal H.ZEPF 19.651.15M Made in Germany C€ | 05/07

**19.651.15M** Surgical Micro Aspirator, titanium tip,  $\varnothing$  1.5 x 15 mm, modified tip by Dr. Shakibaie-M.





# Retraction-Thread Plugger

The ergonomic shape of the instrument tips allows plugging of the thread even in difficult spots.

The notch at the tips make it substantially easier to tie the thread around the tooth, the thread remains in the pocket and does not stick to the instrument.

The plugger is made of stainless steel and has the new **ZEPF NONIK** Handle.



24.548.01

Retraction-Thread Plugger, exchangeable



# Probes Antrum Probe

**19.576.13** Ø 1.5 mm, 13 cm

**19.574.14** Ø 1.0 mm, 14.5 cm

**19.576.14** Ø 1.5 mm, 14.5 cm

**19.574.16** Ø 1.0 mm, 16 cm

**19.576.16** Ø 2.0 mm, 16 cm

## Luniatschek



**19.600.18** Cotton Plugger, 1.8 mm, fine, 17.5 cm



**19.600.25** Cotton Plugger, 2.5 mm, wide, 17.5 cm



Miller Bone- & Alveolotomy File

Parallel cut, 17.5 cm





# Wire Seizing / Ligature Pliers and Fracture Splint





# Mirrors for Interoral Photography

Titanium-coated front surface for very clear picture.

Big Mirror, 6.8 cm

#### 24.058.02

Mirror for children, palatinal pictures, width 5.5 cm

### 24.058.01

Mirror for adults, palatal pictures, width 6.8 cm



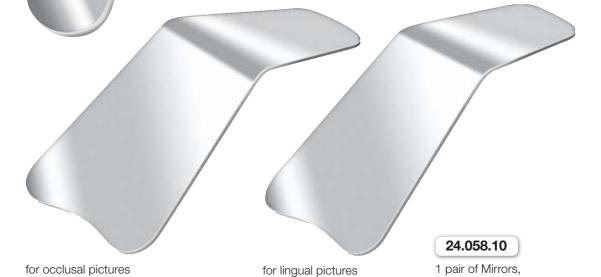


# 24.058.03

Mirror for lateral pictures, width 3.5 cm

Mirror for lingual pictures, width 5.4 cm

stainless steel, polished



Small Mirror, 5.5 cm

### **ZEPF** Bone Holding Forceps

acc. to Dr. Howard Gluckman



23.105.50

**ZEPF** Bone Holding Forceps acc. to Dr. Howard Gluckman













Specialist in Periodontics, Implantology and Oral Medicine Director of Implant & Aesthetic Academy, Cape Town, South Africa

"Bone holding forceps that I have tried so far are always very difficult to handle and some require 2 hands to use them effectively. A big problem for me was that the forceps usually got in the way and made screwing the bone blocks into position difficult. This inspired me to create a bone holding forceps that allowed one to effectively hold the bone plate or the bone block and at the same time having adequate space for the bone screws and driver.

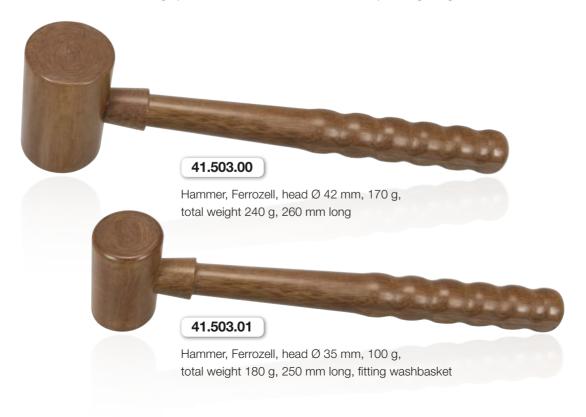
The holder is easy to use with one hand due to the ratchet design and firmly grips either the bone plate or block on its own, thereby allowing fixation of the plate at the desired distance from the bone; if you utilise the Khoury technique; or to hold both bone block and recipient site thereby enabling easy bone fixation. The bone vice is designed to work with both large and small blocks."



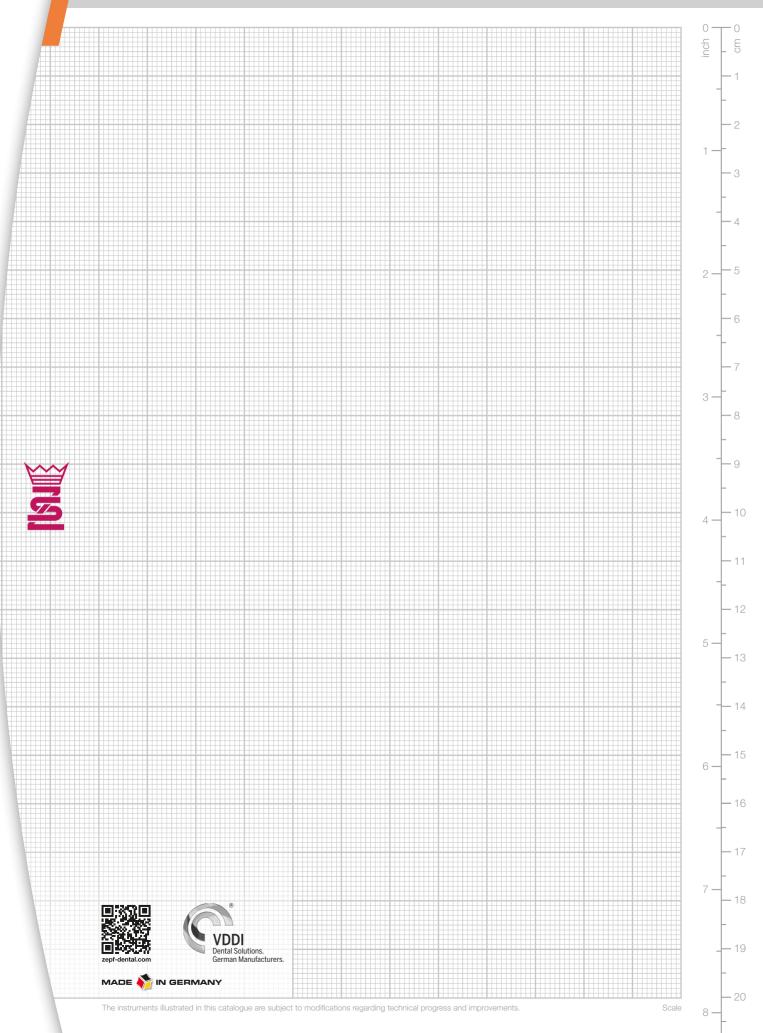
### Hammer, Ferrozell

The big hammer lies perfectly in the hand. Due to its (woodlike) material consistency, it offers a superior feeling in osteotomizing. No feel of metal, no loosening of plastic inserts – You always have the feeling of hitting perfectly and of regulating the pressure and the speed...

A true miracle of dental surgery and a must for each OT Set - not only for "big" surgeons!









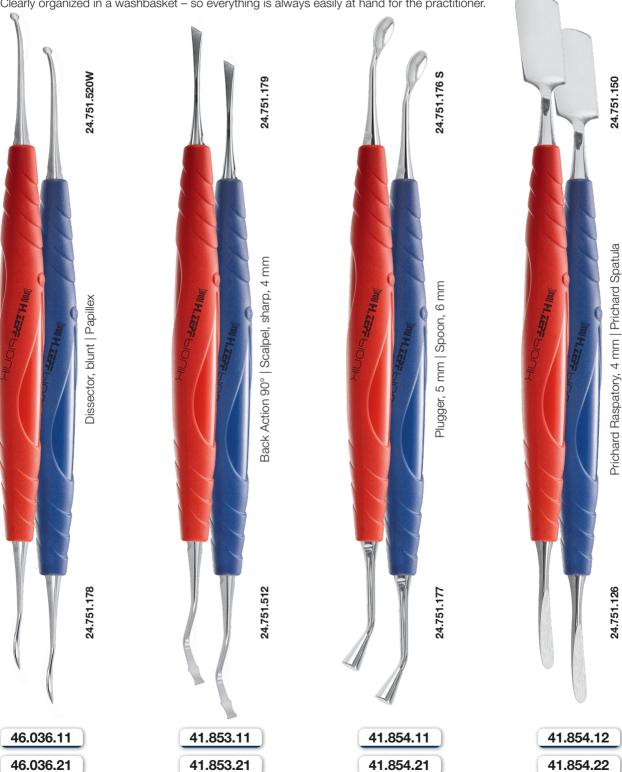
# Content: **ZEPF** ECO ImplaTool Set

24.961.05 24.961.06 The **ZEPF** ECO ImplaTool Set in cobalt-blue or lightred-magenta

Out of his own experience Dr. Hildebrand came up with a complete instrument set for the whole oral surgery and the treatment in the implantology and periodontalogy. No matter if classical or new conceptions, like sinus elevation or microsurgical interventions, all demands can be covered.

Special raspatories, elevators and dissecting instruments enable and simplify surgical procedures and mainly non-traumatic operations. The exchangeable working tips inserted in the ergonomic blonk handle offer highest economy and best tactile handling.

Clearly organized in a washbasket – so everything is always easily at hand for the practitioner.







24.072.22.

MEGAduo Mouth Mirror Insert, **26.194.07** 

26.194.05 GIONN Universal Handle single-ended



41.855.22



41.854.13 41.854.23



24.207.06HF

24.205.06HF



24.853.14

24.853.24

Content: **ZEPF** ECO ImplaTool Set





Micro Needle Holder ZEPF-Line, with lock & protected inner spring, SpinLock, stainless steel, 17.5 cm, TC 46.081.16SC

Joseph Scissors curved, micro serrated, SuperCut, 14 cm 46.007.02

■Drop-Control ► Scalpel Blade Holder 22.489.00

Micro-Adson
1 x 2 teeth, with
suture plate,
15 cm

22.025.03

Tweezers
with stop-pin,
ergonomic,
15 cm



# Bone Scraper

Collecting autologous bone material.

In oral surgery bone replacements and bone structures are often combined with autologous bone pieces during augmentations in order to use their osteoinductive effect. The Bone Scraper is the perfect instrument for an easy and quick collection of autologous bone structures. It enables you to scrape, collect and transplant the patients' own bone. Everything can be done without the usage of bone filter, trephine bur, saw or bone mill.

The blade makes a collection of cortical and spongious bone possible.

The bone is collected in a chamber during the scraping and at the same time the bone is being mixed with blood. The bone material can be implanted directly out of the Bone Scraper which has been sterilized before.





**47.957.01** Spare blade for 47.957.00

# **ZEPF** Bone Scraper II







By using the Bone Scraper, instruments like bone filters, trephines, saws and bone mills are no longer necessary. Its blades allow a fast harvesting of cortical and cancellous bone. The cost-efficient disposable blade offers the practitioner an always sharp and economical instrument.

#### Spare Blade

replacements, available in quantities of:

47.957.30

PU 3 pieces

47.957.50

PU 5 pieces

#### Sleeve

47.957.70

#### **Bone Scraper II**

**ZEPF**-Design, with sleeve and disposable blade

47.957.10

straight version

47.957.15

angled version

### **Bone Scraper II Handle**

47.957.60

straight version

47.957.65

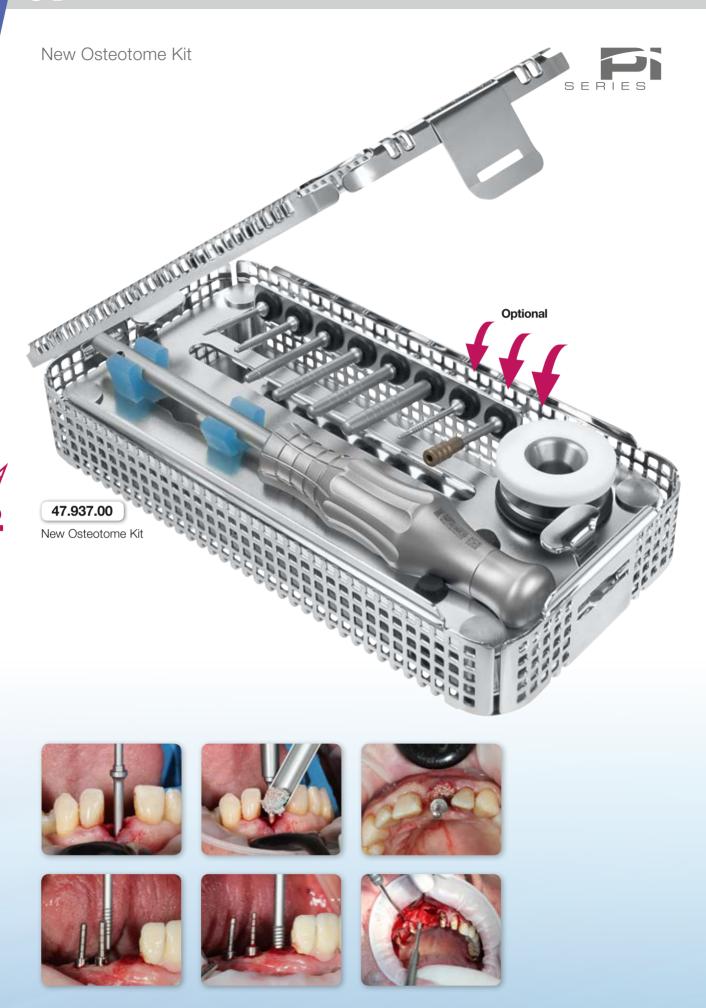
angled version

#### **Essential advantages:**

- ergonomic
- easy cleaning
- quickly replaceable
- simple application
- cost-efficient



+49 (0) 74 64 / 98 88 0



#### Content: New Osteotome Kit





Screw-Osteotome Inserts RA-Hex connection with shock absorption



New Osteotome Inserts RA-Hex connection with shock absorption, graduation 7/10/13/15/18/20 mm





47.502.10

Screwdriver Handle with extension, RA-Hex connection with shock absorption, for screwing and hammering application

#### Without illustration

85.182.50 1/3 Washtray System 47.937.01 Tray for New Osteotome Kit

47.937.14

# Optional Accessories

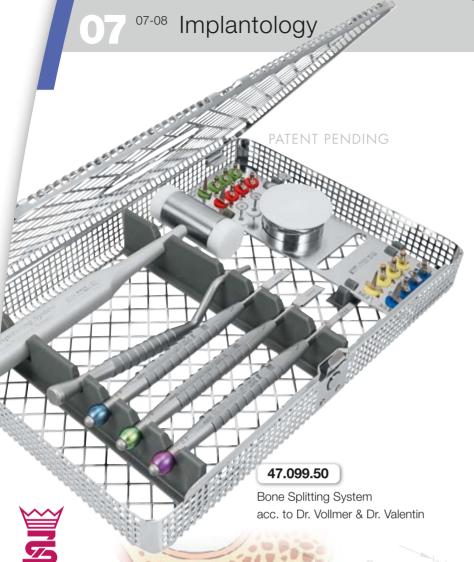




85.255.02

Storage Box for 10 titanium pins



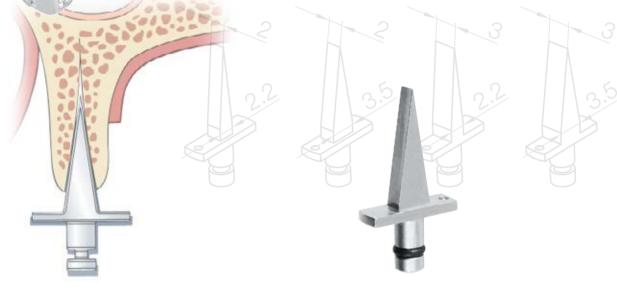


# Bone Splitting System acc. to Dr. Vollmer & Dr. Valentin

A successful implantation primarily depends on sufficient bone in the region of the alveolar process and especially on the quality of the bone. Only a stable bone structure can guarantee a safe anchorage of the implant.

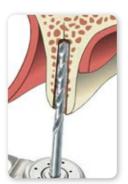
In addition to modern augmentation methods, the bone splitting technique is becoming more and more important.

The principle is based on the creation of a similar alveolar cavity in the maxillary crest with a good potential of regeneration. For this indication, the experienced implantologists Dr. Vollmer and Dr. Valentin have developed exactly adapted system components for different anatomical situations in co-operation with the company.

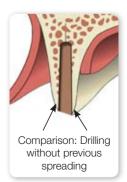












zepf-dental.com

At first, the maxillary crest which has become too small due to atrophy is being separated in its longitudinal direction by diamond discs. Thereafter, it is split carefully by means of chisels. In doing so, the lateral cortical bone lamellae are preferably displaced in labial direction.





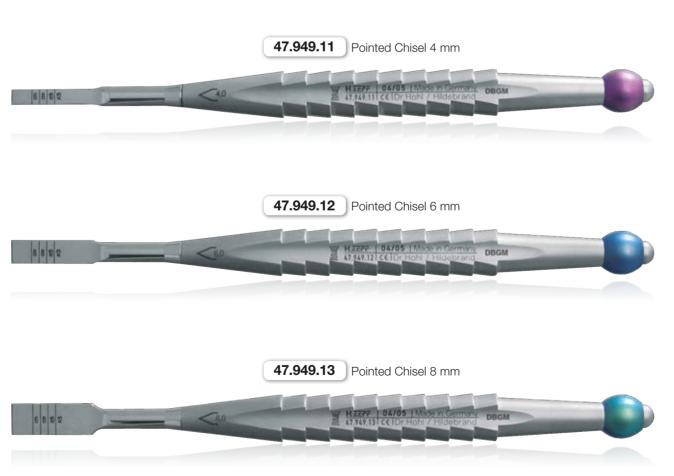


After these preparatory steps, small wedges are inserted in the gap. In each case, two wedges are used as placeholders for the drilling of the implant bed and the insertion of the implant.

While drilling, the bone lamellae are reliably prevented from springing back. Upon insertion of the implants and removal of the inter-implantatory wedges, the remaining gaps can be filled with augmentation material in order to allow an augmentation and, in opportune cases, an immediate and simultaneous implantation.

### Content: Bone Splitting System







# Separating Discs







Separating Disc Ø 10 mm

47.099.10



# Wedge Applicator



# Inter-Implantatory Wedges



Wedge 2 mm / 2.2 mm, green



Wedge 2 mm / 3.5 mm, red



Wedge 3 mm / 2.2 mm, yellow

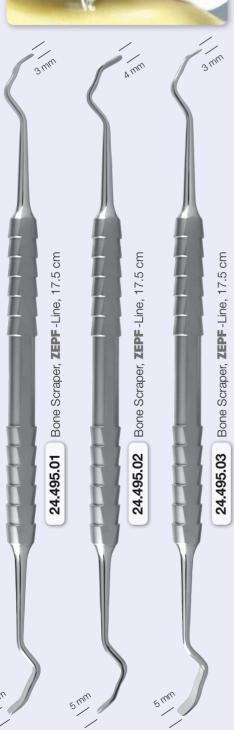


Wedge 3 mm / 3.5 mm, blue

## **Back Action Chisel**

Modified as Bone Scraper in different widths, to gain autologous bone during operation.





Bone Fitting Set acc. to Dr. Hohl & Dr. Hildebrand

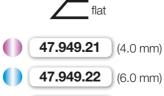
47.949.95

Bone chisels are used to gain bone chips, to shape bone structures and to widen bones from the cranial side. The pointed chisels are used for the first widening of the maxillary crest. The flat chisels smoothen and shape bone structures.



Content: Bone Fitting Set





47.949.23

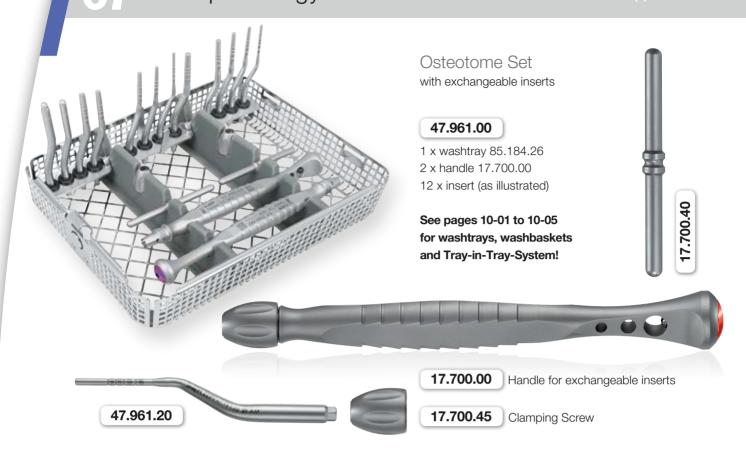
(8.0 mm)



color coding

marking (working end / width)







convex	concave	measure	depth	grading
47.961.20	47.962.20	Ø 2.0 mm	20 mm (for 2.0)	9/11/13/16
47.961.28	47.962.28	Ø 2.0 - 2.8 mm	20 mm (for 2.8)	9/11/13/16
47.961.33	47.962.33	Ø 2.8 - 3.3 mm	20 mm (for 3.3 / 3.8)	9/11/13/16
47.961.38	47.962.38	Ø 3.4 - 3.8 mm	20 mm (for 4.3)	9/11/13/16
47.961.43	47.962.43	Ø 3.9 - 4.3 mm	20 mm (for 5.0 / 6.0)	9/11/13/16
47.963.50	47.962.50	Ø 5.0 mm	20 mm (for 5.0)	
47.963.60		Ø 6.0 mm	20 mm (for 6.0)	-

### Hollow Cylinder Osteotomes acc. to Dr. Vollmer & Dr. Valentin

With the ejector, which will positioned at the distal end, the gained bone material can be implanted efficiently in another place. Comparable with solid osteotomes it comes to a condensing of the bone in order to get a better primary stability for the implant in a cancellous bone.





# Osteotome Set

#### 47.940.00

Osteotome Set, straight

#### 47.940.01

Osteotome Set, angulated

always including

#### 85.180.00

Washtray 1/1, for max. 16 hand instruments

incl. 2 silicone rubbers and instrument retainer, 275 x 178 x 24 mm









### concave straight

- **47.942.20** Ø 2.0 (for 2.0)
- **47.942.28** Ø 2.3 / 2.8 (for 2.8 / 3.3)
- **47.942.33** Ø 2.8 / 3.3 (for 3.3 / 3.8)
- **47.942.38** Ø 3.4 / 3.8 (for 4.3)
- **47.942.43** Ø 3.9 / 4.3 (for 5.0 / 6.0)

# concave angulated

- **47.943.20** Ø 2.0 (for 2.0)
- **47.943.28** Ø 2.3 / 2.8 (for 2.8 / 3.3)
- **47.943.33** Ø 2.8 / 3.3 (for 3.3 / 3.8)
- **47.943.38** Ø 3.4 / 3.8 (for 4.3)
- **47.943.43** Ø 3.9 / 4.3 (for 5.0 / 6.0)



### convex straight

- **47.944.20** Ø 2.0 (for 2.0)
- **47.944.28** Ø 2.3 / 2.8 (for 2.8 / 3.3)
- **47.944.33** Ø 2.8 / 3.3 (for 3.3 / 3.8)
- **47.944.38** Ø 3.4 / 3.8 (for 4.3)
- **47.944.43** Ø 3.9 / 4.3 (for 5.0 / 6.0)

#### convex angulated

- **47.945.20** Ø 2.0 (for 2.0)
- **47.945.28** Ø 2.3 / 2.8 (for 2.8 / 3.3)
- **47.945.33** Ø 2.8 / 3.3 (for 3.3 / 3.8)
- **47.945.38** Ø 3.4 / 3.8 (for 4.3)
- **47.945.43** Ø 3.9 / 4.3 (for 5.0 / 6.0)

+49(0)7464/98880



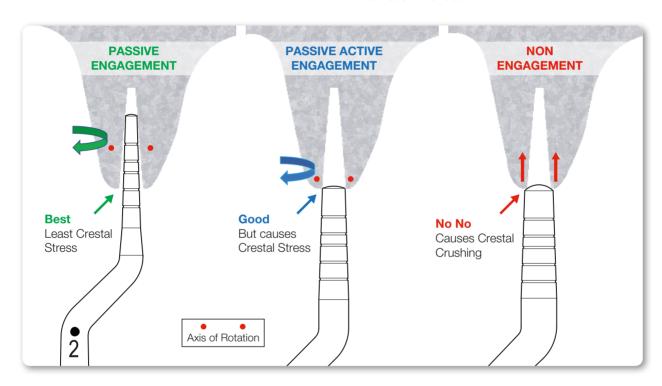
#### Advantages of the VGO Osteotomes

- ZERO HEAT PRODUCED!
- ALWAYS PASSIVE ENTRANCE!
- DECREASED CRESTAL STRESS!
- FULL CONTROL OF RATE OF DILATION! since hand-piece is not used at constant speed
- REVOLUTIONARY FLEXIBILITY OF USE All Osteotomes on the market may look alike, but they are not! We offer a unique stepped formula for tip escalation and a revolutionary flexibility of use like no other system on the market.

#### **3 MAIN MODES OF USE!**

ZEPF VGO MODE: PASSIVE ENGAGEMENT (Stepped Escalation) **ZEPF HYBRID MODE: PASSIVE ENGAGEMENT (Linear Escalation)** 

ZEPF STANDARD MODE: PASSIVE ACTIVE ENGAGEMENT / NON ENGAGEMENT not recommended





#### Bone is Gold: PASSIVE WAVE DILATION SYSTEM acc. to Pavel Krastev DDS

How do we manage the osteotomy ATRAUMATICALLY? How do we manage the osteotomy for greater implant success? Bone is Gold, so how do we hurt the bone less? How do we mallet less, as to make procedure less unpleasant for our patients?

Let us control the bone as opposed to having the bone control us.

Because of the overlapping diameters of the VGO Osteotomes, you are able to passively engage the previously made intrabony cavity, even when you didn't use the full length of the tip.

**PASSIVE ENGAGEMENT** – successive osteotome fits freely into the previous intrabony cavity and becomes active at a point deeper than crestal bone, as is currently done by the new **ZEPF VGO** Way.

**PASSIVE ACTIVE ENGAGEMENT** – when a traditional Summers Osteotome is used to full working depth of tool, the next tip will engage previously made intrabony cavity passively and will start being active immediately as it progresses further into cavity.

**NON ENGAGEMENT** – when next osteotome is used, it simply does NOT fit the intrabony cavity created by previous osteotome. This is what occurs when traditional Summers Osteotomes are used to partial depth of tip.



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#### ANTERIOR VGO OST-Set

with 7 straight screw osteotome inserts, numbered from 0-6

- Tips have first 8 mm threaded
- Produce micro cuts in bone
- Increased bleeding and better angiogenesis
- No malleting needed
- Tip-0 is unique in straight kit (Ø 1 Ø 2 mm)
- Tip-0 to accommodate thin anterior ridges
- Provides precision marking tips for immediate placement

Straight Screw Osteotomes in the VGO OST-Set





#### Exchangeable with Hex Connection for Z-Shape Universal handle 47.990.10 Screw Osteotome Insert straight, size 0, tapered Ø 1 - 2 mm, convex shank Ø 2 mm, scale 8/10/13/16 mm 47.990.20 Screw Osteotome Insert straight, size 1, tapered Ø 1 - 3 mm, convex shank Ø 3 mm, scale 8/10/13/16 mm 47.990.30 Screw Osteotome Insert straight, size 2, tapered Ø 2 - 3 mm, convex shank Ø 3 mm, scale 8/10/13/16 mm 47.990.40 Screw Osteotome Insert straight, size 3, tapered Ø 2 - 4 mm, convex shank Ø 4 mm, scale 8/10/13/16 mm 47.990.50 Screw Osteotome Insert straight, size 4, tapered Ø 3 - 4 mm, convex shank Ø 4 mm, scale 8/10/13/16 mm 47.990.60 Screw Osteotome Insert straight, size 5, tapered Ø 3 - 5 mm, convex shank Ø 5 mm,

scale 8/10/13/16 mm

scale 8/10/13/16 mm

Screw Osteotome Insert straight, size 6, tapered Ø 4 - 5 mm, convex shank Ø 5 mm,

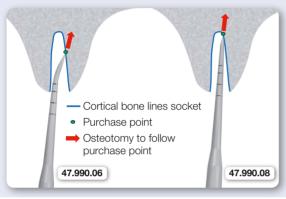
47.990.70



#### POSTERIOR VGO OST-Set

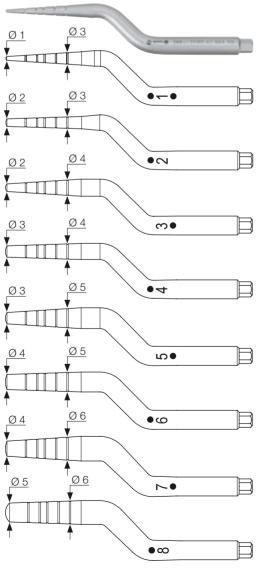
with 8 angulated osteotome inserts, numbered from 1-8

- No threads since turning motion limited
- 5 mm mark placed on all tips to mark threshold for crestal lift
- 5 mm is minimum available bone recommended for crestal lift
- Tips have same taper as tips 1-6 for straight kit
- Two additional tips (7 and 8) to accommodate wider ridges typically found in posterior area
- Provides precision marking tips for immediate placement



#### **Application of the Precision Marking Tips**

To be used during immediate placement surgery to initiate osteotomy offset towards palatal. Rotary drills usually slide down bone due to angle at which the osteotomy is initiated.



### Angulated Osteotomes in the VGO OST-Set

Exchangeable with Hex Connection for Z-Shape Universal handle

**47.991.10** Osteotome Insert angulated, size 1, tapered Ø 1 - 3 mm, convex shank Ø 3 mm,

scale 5/8/10/13/16 mm

47.991.20 Osteotome Insert angulated, size 2, tapered Ø 2 - 3 mm, convex shank Ø 3 mm, scale 5/8/10/13/16 mm

47.991.30 Osteotome Insert angulated, size 3, tapered Ø 2 - 4 mm, convex shank Ø 4 mm, scale 5/8/10/13/16 mm

47.991.40 Osteotome Insert angulated, size 4, tapered Ø 3 - 4 mm, convex shank Ø 4 mm, scale 5/8/10/13/16 mm

47.991.50 Osteotome Insert angulated, size 5, tapered Ø 3 - 5 mm, convex shank Ø 5 mm, scale 5/8/10/13/16 mm

47.991.60 Osteotome Insert angulated, size 6, tapered Ø 4 - 5 mm, convex shank Ø 5 mm, scale 5/8/10/13/16 mm

47.991.70 Osteotome Insert angulated, size 7, tapered Ø 4 - 6 mm, convex shank Ø 6 mm, scale 5/8/10/13/16 mm

47.991.80 Osteotome Insert angulated, size 8, tapered Ø 5 - 6 mm, convex shank Ø 6 mm, scale 5/8/10/13/16 mm



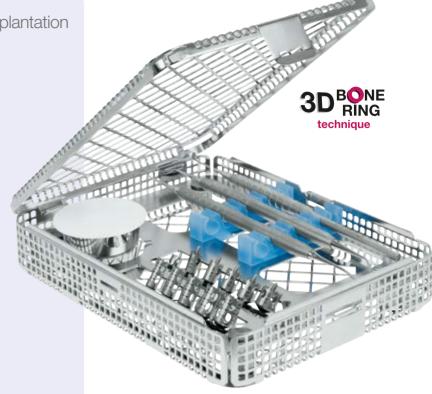
3D One Step Augmentation & Implantation

acc. to Dr. Bernd Giesenhagen

In co-operation with Dr.Giesenhagen, the company **HELITUT ZEPF** has developed a new set for the One Step Vertical Augmentation with ring-shaped bone transplants.

The aim of this development is an accelerated implant treatment. Thereby, the safety of the implantological success as well as the convincing result for the patient and the user have priority. In many cases, this new augmentation method can be used to build up the bone base for the insertion of one or more implants.

Particularly suitable for the vertical augmentation of the highly atrophied and distal mandible (pic. 2). With this newly introduced technique, perfectly fitting ringshaped bone transplants are removed from the chin-, retro-molar region or from the palatal area (pic. 1) by means of trephines and fixed immediately in the receiving area (pic. 3) with a screw implant.

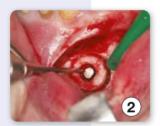


#### 47.500.31

Complete Set with washbasket 85.184.18 and instruments; without optional accessories









Dr. Bernd Giesenhagen, the inventor of this procedure, and **HELMUT ZEPF** have selected a special range of instrumentation for precise and time-saving steps of treatment in order to ensure an optimal function.

# Application

The local cortical bone structure with spongious parts of vital cells guarantees a safe fixation with short healing time.

The filling of possibly existing cavities is usually made by spongious chips taken from the donor area or by bone substitutes.

For an additional coverage of the augmented area with a barrier membrane we recommend our **HELMUT ZEPF** Augmentation Kit 47.966.00.

07

# 3D One Step Augmentation & Implantation acc. to Dr. Bernd Giesenhagen



Ball to receive a page and March to Property of the Page

47.520.23 Adenoid Curette Ø 3 mm



47.520.25

Ring Breaker, small/large, double-ended



#### Trephines, short

**08.910.13S** inner Ø 5 mm

**08.910.08S** inner Ø 6 mm

**08.910.09S** inner Ø 7 mm

**08.910.10S** inner Ø 8 mm

**08.910.11S** inner Ø 9 mm



#### Trephines, with fixation support

**08.910.13F** inner Ø 5 mm

**08.910.08F** inner Ø 6 mm

**08.910.09F** inner Ø 7 mm

**08.910.10F** inner Ø 8 mm

**08.910.11F** inner Ø 9 mm



Plain Milling Cutter Ø 6 mm



#### 85.251.04

Mixing Cup, stainless, with POM Lid, Ø 4 cm

# Optional Accessories

not included in set

#### 47.099.25

Ring Applicator for rings with Ø 5 mm and Ø 7 mm, extendable to Ø 9 mm by means of a metal ring – see article 47.099.26



#### 47.099.26

Metal Ring for Ring Applicator 47.099.25 – for holding bigger bone rings with Ø 9 mm



# **Trephines**

Trephines are used for a gentle and precise removal of an implant. They are used to win bone texture and to excavate implants accurately. The trephines are manufactured of stainless steel.

The grading is visibly laser-marked onto the burs and guarantees a secure depth orientation.

The windows in the body offer a better view for the excavation of the implants and make it easier to reject fragments. The bur stand offers a safe and perfectly clean storing and easy positioning through a snap-in system.

The marking of the rack allows a fast and uncomplicated identification of the trephines.



#### **Bur Stand for Trephines**



**85.070.01** 8.5 x 5.0 cm for 6 burs, shaft Ø 2.35 mm

**85.070.05** 8.5 x 4.5 cm

for 6 short burs, shaft Ø 2.35 mm



	Ø Inside	Ø Outside	Teeth	Body Length	Grading
08.910.01	1.7 mm	2.3 mm	7	22 mm	7/10/13/16
08.910.02	2.3 mm	2.8 mm	7	22 mm	7/10/13/16
08.910.03	2.8 mm	3.3 mm	9	22 mm	7/10/13/16
08.910.04	3.3 mm	3.8 mm	9	22 mm	7/10/13/16
08.910.05	4.0 mm	4.5 mm	11	22 mm	7/10/13/16
08.910.06	4.3 mm	4.8 mm	11	22 mm	7/10/13/16
08.910.07	4.8 mm	5.8 mm	9	22 mm	7/10/13/16
08.910.13	5.0 mm	6.0 mm	11	22 mm	7/10/13/16
08.910.08	6.0 mm	7.0 mm	12	22 mm	7/10/13/16
08.910.09	7.0 mm	8.0 mm	18	22 mm	7/10/13/16
08.910.10	8.0 mm	9.0 mm	18	22 mm	7/10/13/16
08.910.11	9.0 mm	10.0 mm	18	22 mm	7/10/13/16
08.910.12	10.0 mm	11.0 mm	19	22 mm	7/10/13/16



	Ø Inside	Shaft	Description
08.911.30	3.0 mm	2.35 x 15 mm	Trephine short
08.912.50	5.0 mm	2.35 x 15 mm	Trephine short
08.912.75	7.5 mm	2.35 x 15 mm	Trephine short
08.912.10	10.0 mm	2.35 x 15 mm	Trephine short

Mucosa Membrane Punches suitable for hand piece (Dimensions are the inner diameter)



**85.070.05** Suitable Bur Stand for 6 Mucosa Membrane Punches



08.920.03	Ø 3.0 mm	08.920.06	Ø 6.0 mm
08.920.04	Ø 4.0 mm	08.920.13	Ø 3.5 mm
08.920.05	Ø 5.0 mm	08.920.16	Ø 6.5 mm

#### **ZEPF** Bone Crusher

With this Bone Crusher we introduce a proven alternative to the more complex bone mill. Insert the bone piece into the crusher and use the Pusher in order to crush the bone. If necessary, you may additionally use the hammer 41.509.00.

# Bone Mill Forceps

#### For gaining autogenic bone material.

In order to correct bone defects, an intraoral harvesting of bone is often necessary. Pieces of bone may be gained with trephines or chisels. It is the aim of the Bone Mill Forceps to cut bone material into small pieces so that a maximum volume of bone chips can be achieved. The "grainy" consistency of bone chips created will ensure that it is adapted most favourably to osseous embedding.



#### 47.955.00

Bone Crusher, Body, Sleeve, Pusher, Baseplate Ø 20 mm,



#### 47.955.10

Teflon Support for Bone Crusher After using the hammer, turn the Pusher 90° and crush again. With this movement the cutting edge is turned on the bone. After that, the desired result should be achieved.



- Titanium Bone Mill Inserts
- Mill Inserts are detachable and exchangeable
- no loss of bone material
- conform to the RKI guidelines because of easy cleaning
- specially designed new forceps, which allow parallel closing of the working parts, which allows a maximum milling result
- stop screw avoids direct contact of the milling parts, due to this protection the milling parts will last longer









# **Helical toothed Milling Part**

47.954.35

for Bone Mill 47.954.01 and to be mounted in 47.954.00 / 47.954.01 (This new milling part can be ordered and subsequently be mounted in an older type of Bone Mill by the user himself).



#### **ZEPF** Bone Mill

Bone Mill, to crush autologous bones. In order to correct bone defects, bone harvesting is necessary elsewhere. Bigger bone pieces or bone-blocks can be removed by using trephines.

The **ZEPF** Bone Mill allows to crush bone in order to produce the greatest possible volume of bone graft. The grainy consistence of the produced bone graft guarantees an optimal adaption on the bone.

The extension bar which can be adapted on the rotary handle facilitates an optimized power transmission and torque. The new Bone Mill with helical toothed milling part makes milling easier.

# Advantages of the **HELMUT ZEPF** Bone Mill:

- easy handling
- quick assembly / disassembly without additional tools
- no loss of bone material (even in the case of small quantities)
- easy cleaning



#### Sinus Elevators

acc. to Dr. Meiselbach

The 3 Sinus Elevators acc. to Dr. Meiselbach enable a gentle and atraumatic sinus floor elevation in all areas.

Due to their special shaping the Elevators are an ideal addition to the Universal Sinus Instruments.





41.848.52 Sinus Elevator 2 acc. to Dr. Meiselbach, 3.0 mm / 2.3 mm, blunt



41.848.53 Sinus Elevator 3 acc. to Dr. Meiselbach, 2.3 mm, blunt



## Universal Sinus Instruments

For implantological treatment in the maxilla, in case of missing vertical bone in the direction of sinus maxillaris.

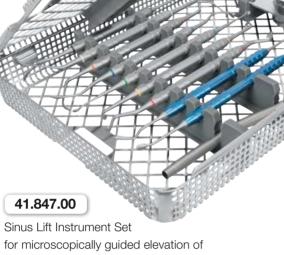
#### Advantages:

- angled instruments ergonomically and anatomically optimised
- atraumatic preparation and lifting of the sinus mucosa
- effective working due to a wide range of different angles





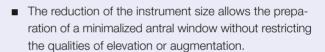
For microscopically guided elevation of the sinus bottom acc. to Dr. Behnam Shakibaie-M.

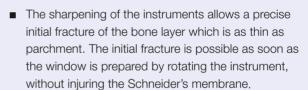


the sinus bottom acc. to Dr. Shakibaie-M. incl. 1 x washbasket 85,195,00 and instruments illustrated on page 07-16 /17



The new instruments are approx. 60% smaller, they were sharpened and the surface was abraded. Under appropriate optical magnification and illumination of the operation field (operation microscope or magnifying glass), those features offer the following essential advantages:





■ The delicate coarseness of the surface of the instruments prevents the unpleasant reflection of light from the operating microscope or the magnifying glass.





In addition, the working tips of the instruments were bent in accordance with the reduced sinus lift window.

Finally, the instruments were also numbered and colorcoded to allow an easy, chronological use.

Thus, the surgeon is able to increase the safety during elevation of the sinus bottom and to apply this technique in a minimally invasive way for the patient.

Pictures by Dr. Behnam Shakibaie-M.



Microsurgical Sinus Lift Instruments acc. to Dr. Shakibaie-M.

#### 41.847.00

Sinus Lift Instrument Set for microscopically guided elevation of the sinus bottom double-ended, acc. to **Dr. Shakibaie-M.** contains following components:





**41.847.01** Sinus Lift Instrument # 2, sharp, 2.9 / 2.9 mm, black



acc. to Dr. Shakibaie-M.

double-ended, 17.5 cm,



Diamond, 014C, round, Ø 1.4 mm

# 08.906.016C

Diamond, 016C, round, Ø 1.6 mm

# 08.906.018C

Diamond, 018C, round, Ø 1.8 mm





acc. to Dr. Shakibaie-M.

double-ended, 17.5 cm,



19.651.15M Micro Sinus Aspirator

Sinus-Line, titanium tip modified

acc. to Dr. Shakibaie-M.

# 07-28 Implantology







#### 24.995.01

Complete Set incl. 1 x washbasket with lid 85.195.00 and partition for Sinus Instrument Set acc. to Prof. Dr. Dr. Stiller



# Sinus Instrument Set acc, to Prof. Dr. Dr. Stiller

Immediate sinus floor elevation with or without bone cover

The Sinus Instrument Set has been developed together with Prof. Dr. Dr. Stiller and is particulary suited for difficult maxillary sinus structure (septa, maxillary pillars, scarred mutations in change with intact maxillary sinus mucosa).





#### Advantages of the system:

- Instruments which are adapted and adjusted perfectly to the anatomical conditions in the maxillary sinus.
- Flexible working ends. Instruments are pre-bended for the normal enantral anatomy.
- Two different kinds of instruments with blunt and sharp edges for dissecting mucosa on plane and rough internal surface of the maxillary sinus.

41.822.01 Stiller Sinus Elevator, blunt, 4.0 mm, bendable, Titanium ZEPF-Line, green, double-ended, 19.5 cm ### PLZEPF 41.822.01 Made in Germany C6/04/04

MINITER 41.822.02 Wade in Germany C6104/04

41.822.02

Stiller Sinus Elevator, blunt, 2.5 mm, bendable, Titanium ZEPF-Line, green, double-ended, 19.5 cm

IN PLZEPF 41.822.03 Made in Germany C6/04/04

Stiller Sinus Elevator, blunt, 3.0 mm, bendable, Titanium ZEPF-Line, green, double-ended, 19.5 cm

41.822.03

MININEEPF 41.822.04

Stiller Sinus Elevator, universal, 3.0 mm, Titanium ZEPF-Line, yellow, double-ended, 19.5 cm

41.822.04









HI H ZEPF 19.651.16 Made in Germany CE 105/07

#### **Surgical Aspirator**

Sinus-Line, slotted, titanium tip, acc. to Dr. Maty

19.651.13 Ø 1.5 mm

19.651.14 Ø 3.0 mm





Mixing Cup, stainless steel, with plastic lid, Ø 40 mm

#### 85.251.14

Mixing Cup without plastic lid, stainless steel, Ø 40 mm

# 08.906.029C

Diamond, 029C, round, Ø 2.9 mm

#### 08.906.023C

#### 08.902.031HF



Stiller Sinus Elevator, sharp, 4.0 mm, bendable, Titanium ZEPF-Line, red, double-ended, 19.5 cm

41.822.11

Stiller Sinus Elevator, universal, 6.0 mm, Titanium ZEPF-Line, blue, double-ended, 19.5 cm

41.822.05

Stiller Sinus Elevator, sharp, 2.5 mm, bendable, Titanium ZEPF-Line, red, double-ended, 19.5 cm 41.822.22

Stiller Sinus Elevator, sharp, 3.0 mm, bendable, Titanium ZEPF-Line, red, double-ended, 19.5 cm

41.822.33



















Diamond, 023C, round, Ø 2.3 mm



HB Drill, 031HF, round





Sinus Instrument Set acc. to Dr. Kirsch

#### 24.995.00

Complete Set incl. 1 x washbasket with lid 85.195.00 and arrangement for Sinus Instrument Set acc. to **Dr. Kirsch** 

Washtrays and washbaskets, Tray-in-Tray-System, see pages 10-01 to 10-05!







41.868.04 Kirsch, Sinus 4, Elevator 120°/120°, Titanium ZEPF-Line Handle, double-ended

41.868.05

41.868.06



41.868.08

41.868.07





Out of esthetic reasons alone, in visible areas, these defects need to be reconstructed.

The augmentation is carried out with autologous bone and titanium foil. The bone implants are covered with a titanium foil after application. To avoid dislocation of the augmentation material below the membrane, the membrane is fixed with at least 2 pins.

The titanium pins with 3 mm or 5 mm length are taken out of the storage box by means of the applicators and pressed into the bone through the foil or membrane.





**Order Quantity** 

Illustration

Storage Box for 10 titanium pins, optional,

if a compact solution is requested

**Article Description** 

# **ZEPF** Augmentation Material Applicator



The Augmentation Material Applicator supports the fractional filling of the subantral area with particulate augmentation material. To compact the augmentation material you use a sinus plugger.

The instrument with diameter of 5 mm is loaded laterally.



The augmentation material can be applicated precisely with the injecting mechanism.

The instrument can be taken apart for optimal cleaning.









#### 08.915.05

outer Ø: 3.0 mm; inner Ø: 2.05 mm;

length: 10 mm (10 pieces)

#### 08.915.02

outer Ø: 3.5 mm; inner Ø: 2.55 mm;

length: 10 mm (10 pieces)

# **ZEPF** Flag Holder

Flag Holder for easy and rapid control of parallelism of implant drillings.



08.917.05

5 mm

for front teeth and premolars



08.917.07

for molars



**08.917.13** 13 mm

for checking a bridge; 2 piles as implant and bridge link, premolar

7 mm



**08.917.20** 20 mm

for checking a rack supply in the lower front with a minimal distance of 20 mm for both implants



#### 08.917.00

Flag Holder Kit consisting of 08.917.05 - .20 in bur stand





Acc. to Prof. Dr. med. dent. Gisbert Krekeler Modif. Dr. med. dent. Sven Marcus Beschnidt

The Sliding Caliper combines a variety of functions in one instrument, thus facilitating the positioning of implants and enlarging the precision.

The measuring rods have a thickness of exactly 1.5 mm and allow immediate control of the maximum diameter of the implant which has to be inserted. (In order to assure maximum stability, please chose the largest diameter). Scientific examinations proved that the wall of the bone should have a thickness of at least 1.5 mm in order to avoid bone resorption after implantation. If the sliding caliper with its two measuring rods is inserted in the interproximal gap and opened in such a way that the measuring rods touch the respective root of the neighbor teeth, the maximum possible diameter of the future implant is shown on the marking IN. The upper marking OUT shows the determined outside dimension.

The new locating screw, at the end of the caliper, allows a fixation of the measured result. This practice-oriented development represents a significant relief with regard to a more precise, quick and and secure work.



31.693.10

Sliding Caliper acc. to Prof. Dr. med. dent. Gisbert Krekeler for measuring of implants with locating screw



**OUT** shows the determined outside dimension (Ø 1.5 mm), IN shows the inner diameter.



Locating screw for a safe fixation of the measured result.



The hole serves as drilling gauge and drilling guide. The marking allows the determination of the ridge.

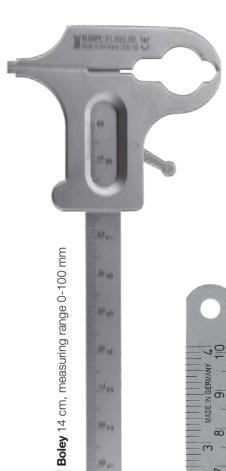




# 31.691.13

Bone Caliper for measuring the maxillary bone, radial scaling on the shanks of the ring handles, 13 cm





31.692.00

Vmade 5

**48.286.08** Metal Ruler, 100 mm

**48.666.20** Metal Ruler, 200 mm

#### Palatal Knife

acc. to Dr. med. dent. Iman Mizani, MS

The novel Palatal Knife offers an innovative alternative to the conventional scalpel for the preparation of connective tissue graft.

The special design of the instrument promotes faster and safer graft removal. At the same time, the risk of injury to the palatine artery and perforation of the palatal flap is minimized.

#### **Special features:**

- angled cutting edge, perpendicular to the palatal bone
- ergonomic, angled instrument neck / shaft
- depth gauge (graduation) for precise dimensioning

#### Advantages over conventional removal methods:

- enhanced safety through reduced risk of injury to the palatine artery and perforation of the palatal mucosa
- simple and ergonomic handling
- fast, precise preparation of the graft
- consistently uniform thickness of the connective tissue graft
- abrading work and cutting in difficult-to-reach places





Palatal Knife

acc. to Dr. med. dent. Iman Mizani, MS

#### **Application:**



1 Singular palatal incision and formation of a flap



2 Preparation to gain connective tissue, using the instrument



3 Dissection of the prepared connective tissue below the flap, removal of connective tissue as soon as the base is detached from the palatal bone



# Implant Guide

for the posterior tooth region, according to Wiedemann

This method quickly and effectively finds the optimal position for the implants in the posterior region.

Here, a standard tooth width is assumed.

Premolars 8 mm, molars 10 mm, so 1/2 premolar = 4 mm, 1/2 molar = 5 mm

The standard tooth widths used are neither scientifically nor individually 100% correct, but these values deliver highly usable implant positions particularly on edentulous jaws.

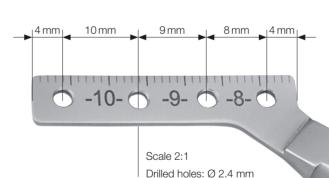












# Distance between drilled holes

- 8 mm: From the center of one premolar to the center of the next premolar (1 x 4 mm + 1 x 4 mm), e.g. center of number 4 to center of number 5.
- 9 mm: From the center of one premolar to the center of a molar (1 x 4 mm + 1 x 5 mm), e.g. center of number 5 to center of number 6.
- 10 mm: From the center of one molar to the center of the next molar (1 x 5 mm + 1 x 5 mm), e.g. center of number 6 to center of number 7.

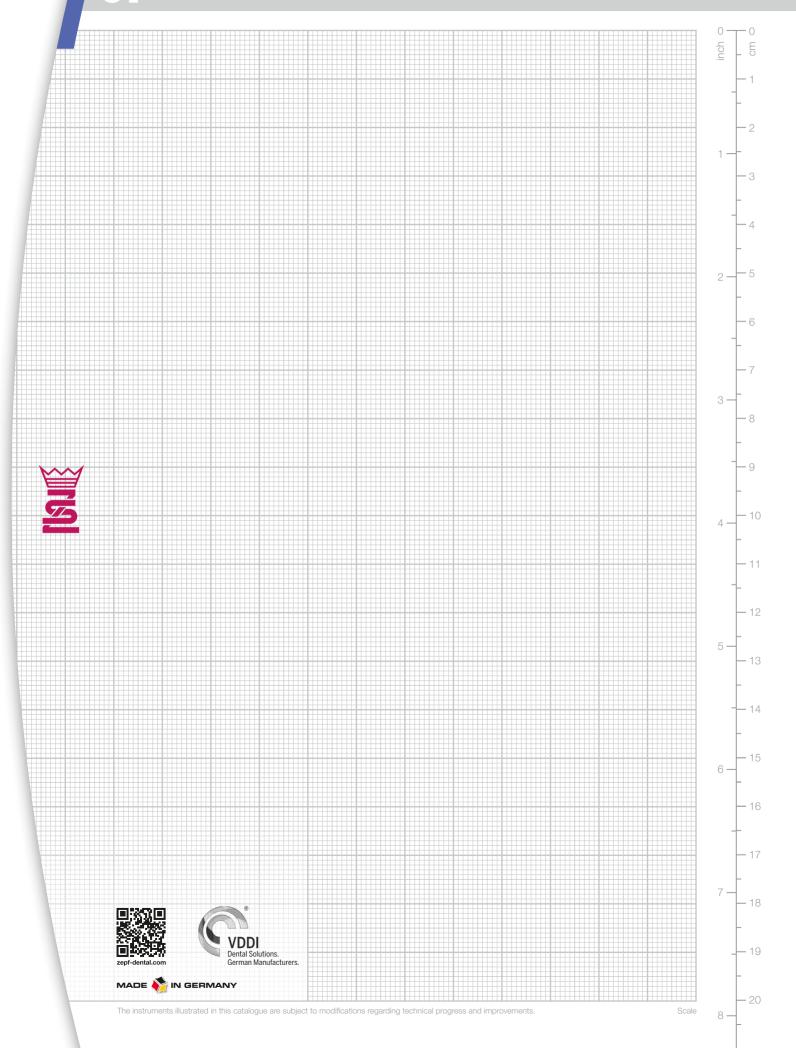
If no premolar is available as a starting point then a canine can also be used. For this, a distance between the mesial end of the working part and the first hole of exactly 4 mm was chosen (1/2 premolar width).

31.683.00

**Drilling Template** acc. to Wiedemann



07-40 Implantology



zepf-dental.com

Microsurgery 08-01





# 2 NEW **ZEPF** Tunneling Instruments!

#### Tunneling Instruments with a new angle

By request of several users, the modified DONIH Tunneling Instruments from **HELMUT ZEPF** have now been supplemented with two new instruments. The instruments curved beyond the working tip allow even better access, especially in the posterior tooth region. Available in two sizes, depending on the extent of tunneling, the user can now select the ideal instrument for his / her purposes.



# 46.040.00

#### Set for tunneling technique,

consisting of: 1/3 Washtray, Tunneling Instruments # 1 upper jaw 46.040.01, # 2 lower jaw 46.040.02, # 3 upper/lower jaw combination 46.035.20







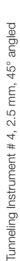






Tunneling Instrument # 3, 1.8 mm, 45° angled

















46.040.04

#### Set for tunneling technique

46.040.30

with 3 Tunneling Instruments like Set 46.040.00, Micro Surgical Scalpel Handle 46.013.00Z and Periosteal Elevator 41.864.30 (ZEPF-Line, round-tip 2.8 mm, lance-tip 2.4 mm)

# **ZEPF** Tunneling Instruments

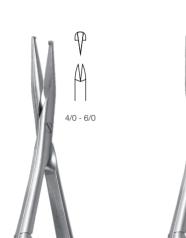
In microsurgery, **HELMUT ZEPF GOODE** Tunneling Instruments find their application in the preparation of flaps or subsequent reconstructions of the alveolar ridge or for root coverings with a connective tissue graft. The instruments allow a minimally invasive tunneling preparation to avoid large openings. Due to the fine shape delicate tunneling incisions in the tissue are possible.







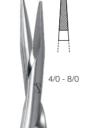




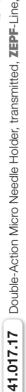
Double-Action Micro Forceps, transmitted, **ZEPF**-Line,

22.830.17

7.5 cm, 1 x 2 teeth, thread plate 10 mm, jaw width 0.6 mm, SpinLock







17.5 cm, tungsten carbide, serrated, jaw width 0.6 mm, SpinLock



#### What is the **ZEPF** SpinLock?

The parallel lock known from standard needle holders has been replaced with the new SpinLock technology. This avoids that the suture material gets caught up on the needle holder.





The instruments were technically modified in the region of the instrument lock. The usual parallel screw lock has been replaced by a new axially turned lock to reliably prevent the suture material from sticking to the needle holder during knotting.

#### **Advantages of the Double-Action Instruments**

- double transmission to allow tactile handling
- made of special stainless steel
- needle holder with tungsten carbide insert to guarantee a long service life
- due to the round shape, the rotation is considerably facilitated, in particular during suturing, contrary to usual flat micro needle holders
- the turned design prevents threads from getting stuck





# **ZEPF** Micro Scissors

Onyx-coated scissors offer a 3-5 times higher surface hardness. In combination with the "Supercut" grinding, this guarantees an extremely long product life and application as well as a very high precision and wear resistance. The extraordinary surface smoothness is leading to an easy slide of the scissor blades even under highest strain.

Furthermore, the anti-glare surface avoids disturbing light deflections. The extremely smooth surface prevents adhesion of proteins.







#### Suture Removal Scissors acc. to Dentist Beck



The newly developed **HELMUT ZEPF** Suture Removal Scissors are combining two functions in one instrument.

#### **Sectioning and Retaining**

The curved micro scissors won recognition for periodontal microsurgery. They are qualified for controlled cuts in

the soft tissue and their main task is the sectioning of the suture (ill. 1).

They are curved for an ideal access to all oral regions. One blade of the scissors is micro-serrated to prevent the soft tissue and the thread from slipping off (ill. 2).

The new trademarked gripping function allows the scissors to be used for the sectioning of the suture and subsequent thread removal without requiring a second instrument (ill. 2).







# 46.319.17N

Suture Removal Scissors with retaining function for suture removal by Dentist Beck, micro-serrations, sharp/sharp, **ZEPF**-Line, curved, SpinLock, 17.5 cm

# Needle Holder acc. to Dr. Kirsch



Needle Holder by Dr. Kirsch, lock, double spring, SpinLock, 17.5 cm, TC



41.200.17TC-K straight





41.201.17TC-K curved



# Macro / Micro Needle Holder





41.010.17TC-M Macro Needle Holder 18 cm, TC

macro bit 11 x 2.0 mm, straight, ZEPF-Line, lock



#### What is TC?

TC stands for "Tungsten Carbide", a material whose superior strength wear resistance and hardness are its major properties that distinguish it from conventional materials.



**ZEPF**-Line, with lock and protected inner spring, SpinLock, TC



**41.200.15TC** stainless steel, 16 cm

**41.200.17TC** stainless steel, 17.5 cm



**41.201.15TC** stainless steel, 16 cm

**41.201.17TC** stainless steel, 17.5 cm









# Micro Needle Holder



# 41.010.17TC Micro Needle Holder

TC, straight, **ZEPF**-Line, lock, SpinLock, 17.5 cm



# 41.011.17TC Micro Needle Holder

TC, curved, ZEPF-Line, lock, SpinLock, 18 cm



#### 41.015.17 Micro Needle Holder

Hold'n'Cut by PD Dr. Weng, combined with scissors, SpinLock, TC



The front part of the Hold'n'Cut Micro Needle Holder holds the end of the needle when entering the flap.



The front part of the needle holder, together with the micro surgical tweezers, holds the thread ends when knotting.



The back part of the Hold'n'Cut Micro Needle Holder offers scissors for the cutting of the thread without changing the instrument or needing any additional scissors.



# Micro Forceps with Diamond Coating

Some forceps can also be ordered with diamond coated tips for better grip.





# Micro Forceps with Diamond Coating

Some forceps can also be ordered with diamond coated tips for better grip.





acc. to PD Dr. Weng, Starnberg

The ImpacTray acc. to PD Dr. Weng makes micro as well as macro surgical operations possible in implantology, periodontology and augmentation surgery.

The amount of necessary instruments is reduced to a minimum by developing and putting together an efficient, mainly double-ended and partially exchangeable instrument set.

The set composition is illustrated on the following two pages.

24.971.00

ImpacTray complete set





ImpacTray acc. to PD Dr. Weng, Starnberg

24.971.00 The ImpacTray Set incl. washtray consists of:



46.035.05

PapillEx Papilla Elevator acc. to PD Dr. Weng, Starnberg

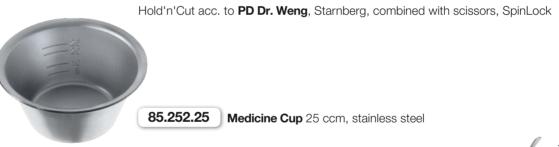


The blunt working end of the PapillEx has a lenticular shape and allows gentle elevation of the tip of the papilla by turning the instrument while positioned adjacently to the cervical part of the tooth.

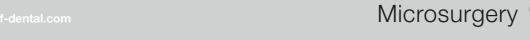
The sharp working end, which is slightly bigger, is used to remove the periosteum from the bone along the sulcular or vertical incision.

Both working ends are exchangeable and can be removed from the instrument shank if necessary.











desmodontal fibres, titanium **26.183.00** Desmotome for cutting the

24.747.04 Prichard Raspatory

**24.747.06 Kirkland** # 15/16, exchangeable

46.013.002 Micro Surgical Scalpel Handle, titanium, ZEPF-Line, 13 cm

**46.007.00** Scalpel Handle, **ZEPF**-Line, straight (without blade)







with suture disc, 15 cm

**22.489.00M** Micro-Adson 1 mm,







Tweezers with stop-pin, ergonomic, 15 cm 22.025.03



Capstan-Line, with Mirror 24.071.22 **24.087.02** Mouth Mirror Handle, titanium,

# Papilla Elevators



46.035.05

PapillEx Papilla Elevator by PD Dr. Weng, Starnberg



The blunt working end of the PapillEx is lentiform and allows gentle elevation of the tip of the papilla by turning the instrument while positioned adjacently to the the cervical part of the tooth.

The sharp working end, which is slightly bigger, is used to remove the periosteum from the bone along the sulcular or vertical incision.

Both working ends are exchangeable and can be removed from the instrument shank if necessary.



46.035.00

**Papilla Elevater** to prepare fine soft tissue structures, **ZEPF**-Line, exchangeable inserts, 17.5 cm





Micro Scalpel Blades for Micro Blade Holders, supplied in packs of 25 pieces



Incl. washtray 1/1, with 2 instrument supports and 1 longitudal instrument retainer, dimensions: 275 x 178 x 24 mm

85.180.00

#### containing:

22.810.17

Tissue Forceps, straight, stainless steel, **ZEPF**-Line, with guide pin, 1 x 2 teeth, 17.5 cm

# (2) 41.200.17TC-K

Needle Holder by Dr. Kirsch, straight, TC, lock, double spring, SpinLock, 17.5 cm

(3) 41.864.13

Raspatory, **ZEPF**-Line

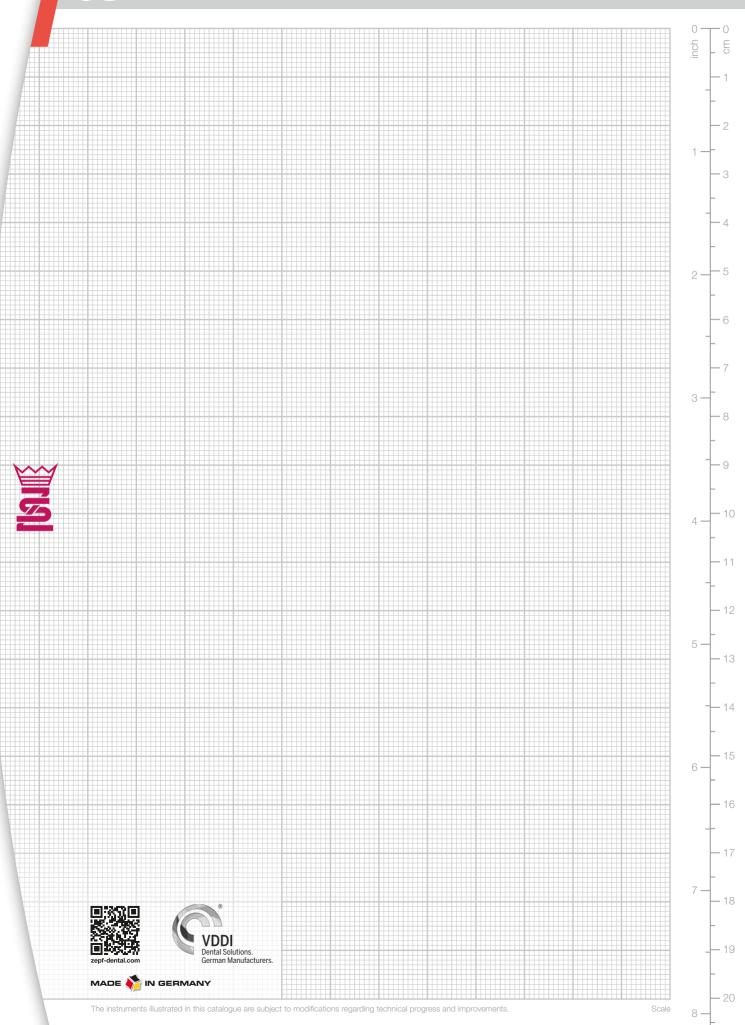
46.319.17

Suture Removal Scissors with micro-serrations, sharp/sharp, curved, **ZEPF**-Line, stainless steel, 17 cm

(5) 46.013.00Z

Micro Surgical Scalpel Handle, **ZEPF**- Line, light version, titanium, 13 cm







# Universal Forceps

These **HELMUT ZEPF** All-purpose Pliers should be on hand at any treatment unit. They may be used for securely grasping temporary plastic crowns, bridges, nerve instruments, stuck matrices, fixing inlays, setting interdental wedges, etc., and may be used on both upper and lower jaws.

Their tungsten carbide steel jaws provide a secure grip.



Universal All-Purpose Forceps,

TC, 14.5 cm

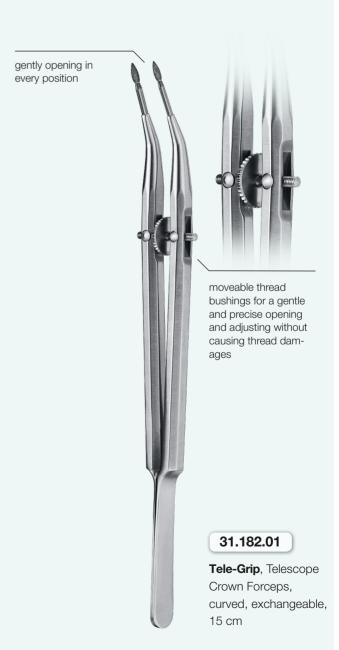
# **ZEPF** Tele-Grip

Easy and thus precise adjustment!

There is always a demand for a precise and above all a sensitive adjustment of a Tele-Grip, to avoid a high tension (damage caused by deformation) in critical situations.

The previous function was only partly given, especially in bigger spreading ranges it was only possible under restrictive conditions. Thus, the durability was affected due to the resulting thread damages.

The **HELMUT ZEPF** Tele-Grip has a movable threaded bearing. As a result, the adjusting screw can be aligned easily and in a most sensitive way throughout the setting range.





# Crown-Tractor Crown-Extraction Pliers with interchangeable plastic tips



Adjust the screw on the plier so that it fits nicely over the crown to be removed

# 19.274.00

**CROWN-TRACTOR Set** "Exclusive" Extraction Pliers with thumbscrew detent and retaining spring, 16 cm 20 Plastic Polymer Tips, 10 g DIATRAC adhesive powder



**CROWN-TRACTOR Set** "Economical" Extraction Pliers without thumbscrew detent and retaining spring, 16 cm 20 Plastic Polymer Tips, 10 g DIATRAC adhesive powder



After adjusting the plier, tips should be moistened with diamond powder



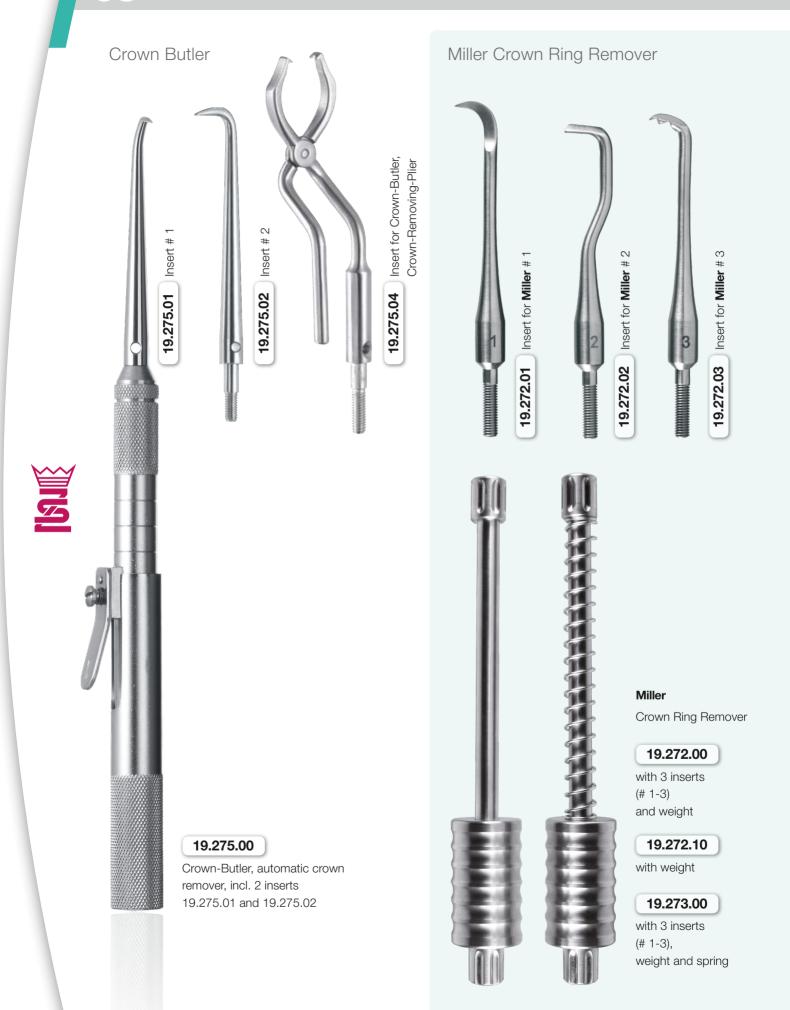
The crown can now be removed in a safe way



19.274.13

Replacement Kit: 10 g DIATRAC adhesive powder and 40 Plastic Polymer Tips









# Telecrown-Grip

These Telescoping-Jaw Pliers offer three variation possibilities in one.

Their adjustable and rigid tips have a first-class, anatomically correct friction coefficient.

The design of the contacting surfaces of their diamond-tipped jaws significantly extends jaw service life.

The choice of configurations allows adapting them to suit patients' anatomies.



# Spare Parts

**31.185.10** 1 pair of diamond-tipped jaws, adjustable, 2.35 mm

**31.185.12** 1 pair of diamond-tipped jaws, rigid, 2.35 mm

**31.184.01** Allen Key, SW 1.5



# Modeling Instruments – Precision in Perfection

Quality MADE IN GERMANY for the quality-conscious technician.





28.161.13

Wax Carver, Fahnenstock, stainless steel, 12 cm







### Prosthetic Kit

Every day, you have to loosen all kinds of implant abutments in the practice / in the laboratory? In order to facilitate your work, HELMUT ZEPF has created a prosthetic set allowing you to loosen more than 90% of all screws available on the market.

All instruments are numbered and dispose of a RA-HEX connection. This means that these instruments can be used either in a contra-angle handpiece or in a ratchet.

### Advantages Prosthetic Kit



In the RA-Hex-Adapter the inserts will be picked up.

Optionally, the finger ratchet can be used with an extension piece. The set can also be completed by a torque wrench which is adjustable from 10-40 Ncm and has a fixation function to deactivate the torque.



RA-Hex Adapter inserted in ratchet. Shown with demounted handle for use as finger ratchet. Information: The RA-Hex-Adapter has a rotating finger rest available (see red arrow).

contains a description of each individual screwdriver in order to facilitate the identification of the tools required for the respective screw.

The storage tray is made of stainless steel and



Among the recessi for two RA-Hex-Adapters a socket for a comfortable removal of the screwdriver inserts from the RA-Hex-Adapter is located.

The tray fits into a basket and can be reprocessed reliably according to the RKI guidelines.

47.830.00

(5)

Complete Prosthetic Kit consisting of:

Shape	Screwdrivers with dental lock	short, 21 mm	long, 26 cm
<b>5</b>	TORX T6, Straumann, Aesthura	47.832.01	47.833.01
	Universal flat 1.6 mm, narrow	47.832.02	47.833.02
	Universal flat 2.0 mm, wide	47.832.03	47.833.03
$\bigcirc$	Allen Key SW HEX 0.03'', Camlog	47.832.04	47.833.04
$\bigcirc$	Allen Key SW HEX 0.05", Camlog, Sulzer (Zimmer), Semados, Biomet 3I	47.832.05	47.833.05
$\bigcirc$	Allen Key SW 0.9 mm, IMPLA, TIOLOX, BREDENT, XIVE		47.833.06
$\bigcirc$	Allen Key SW 1.0 mm, Ankylos 47.832.07		47.833.07
$\bigcirc$	Allen Key SW 1.2 mm, IMPLA, Nobel Biocare, Frialit, XIVE, IMZ, Biomet 3I	47.832.08	47.833.08
$\bigcirc$	Allen Key SW 1.8 mm, Ankylos 47.832.09		47.833.09
1	1/3 Washbasket with Lid	8	5.192.50
2	Rack for Prosthetic Kit	4:	7.830.01
3	Driver Guide	4:	7.525.50
4	Ratchet with demountable handle for Prosthetic Kit	4	7.525.55
5	Optional Accessory: Torque Wrench (not included in the set)	47	Z.803.02*

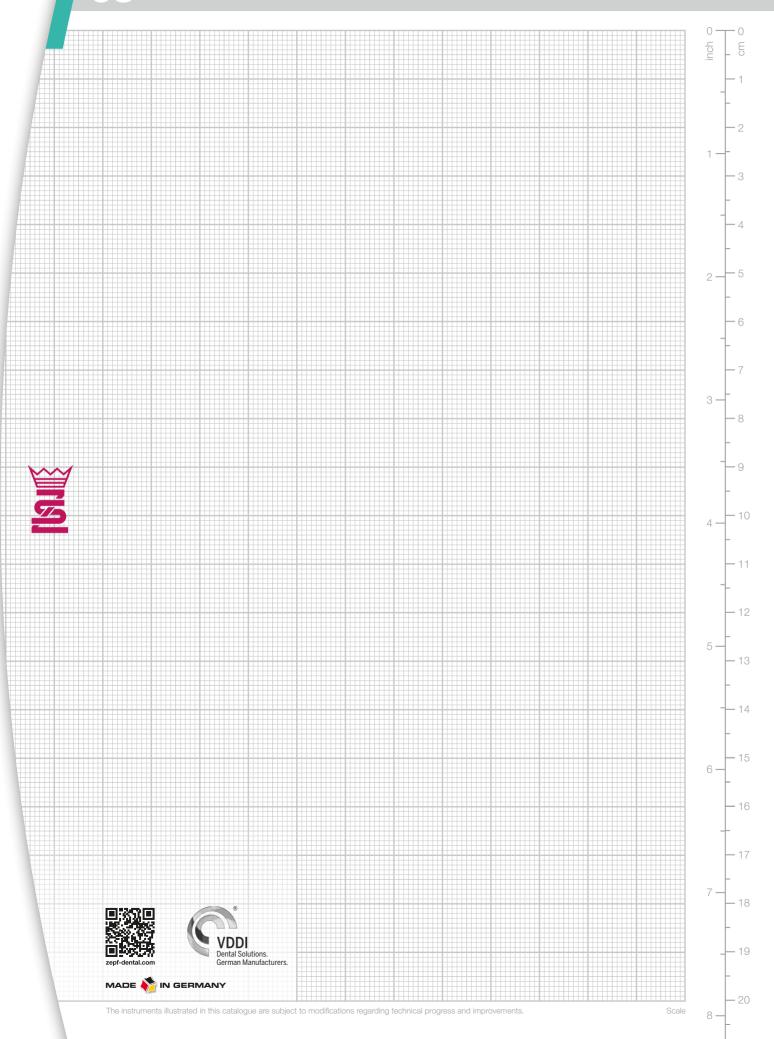
### ALL THE TRADEMARKS ARE THE PROPERTY OF THE RESPECTIVE COMPANIES.

We assume no liability for deviations due to tolerances of implants.



09-10 Crown Instruments

+49 (0) 74 64 / 98 88





# The Modular Hygiene System

Flexible, efficient and approved safe. The ZEPF - Care Universal Silicone Profile allows an easy placement of the instruments after a surgery. For sterilization and cleaning, the instruments are inserted in the profile according to their diameter and are immediately secured.

Additionally, we have equipped the **ZEPF**-Tray and Basket-System with silicone base. Therefore the tray guarantees an anti-slip position and the stacking stability is improved at the same time.

Suitable for standardized sterilization containers, it's available in four different sizes for an ideal working potential. Placesaving, secure and very practical and with a removable lid.

















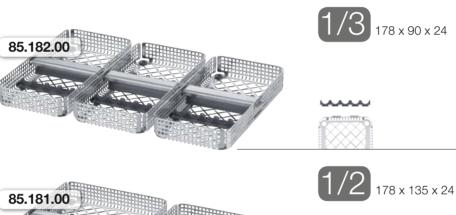


The **ZEPF**-Care-System increases your efficiency, as you can assemble your trays in a process-oriented way and work accordingly.

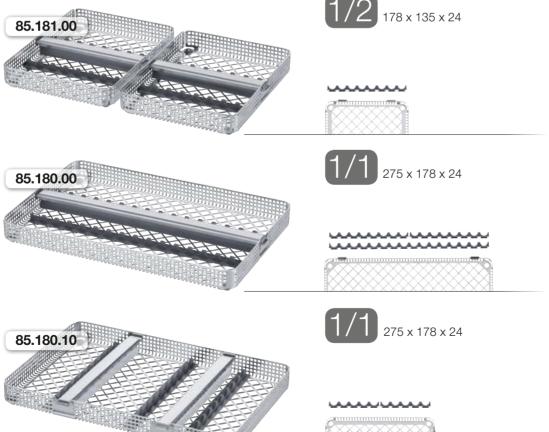
You will meet the requirements of the RKI and the accident prevention regulation.

It doesn't matter whether you are cleaning your instruments manually or automatically.

# Washtrays







# Advantages

- The meshes of the bottom and the lid are designed in a broad shape. Consequently dead zones are minimized.
- The diagonal profile of the mesh simplifies the identification of the parallel arranged instruments in the profile.
- The meshes on the edge of the tray are designed in a narrow shape and thus enhance the stability of the tray.
- The risk of injury is reduced.







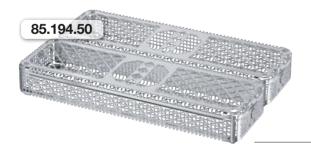


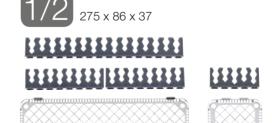
178 x 135 x 37



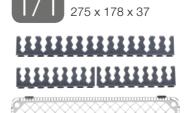








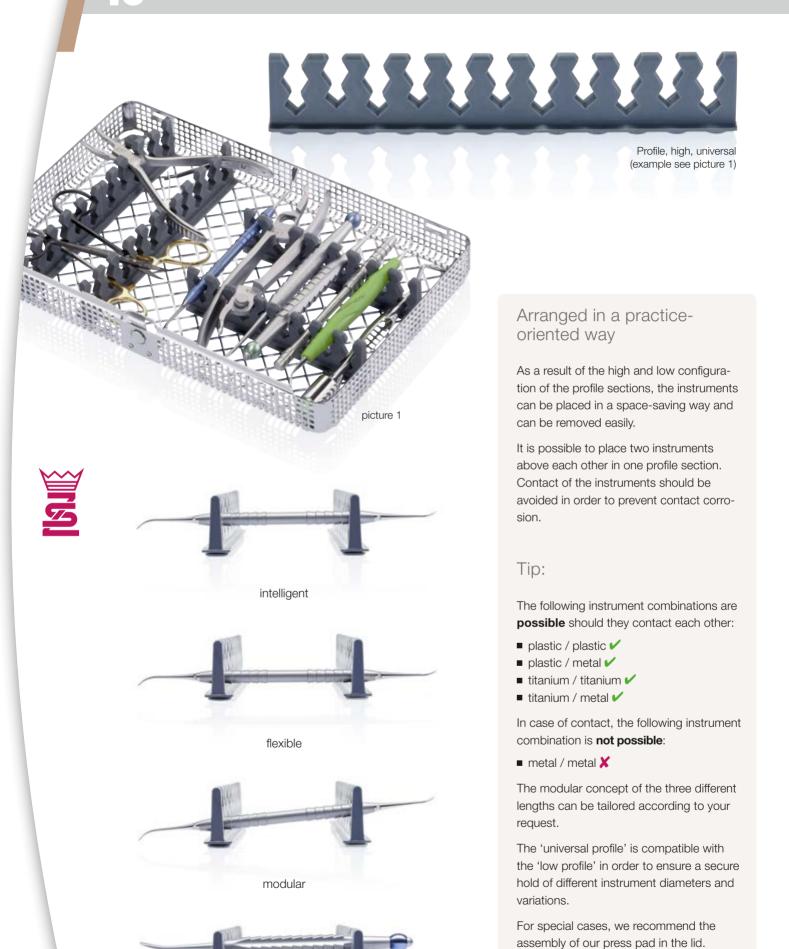






There are no limits set regarding design of

your personalized tray.













**ZEPF**-Care Washbasket – the Space Wonder

Example: equipped wash basket 1/1









# Aluminium Sterilization Container in 5 Sizes

Through the integrated filter in the lid and the base the Sterilization Containers are suitable for all steam sterilization methods:

- fractionized vacuum method
- fractionized steam method
- gravitation method
- pre-vacuum method

Different dimensions and stackability allow easy handling and optimal organization. The containers can be used for storing sterile goods and also for disposing contaminated instruments.

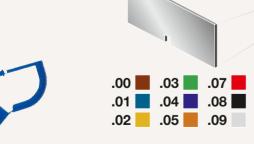
The newly developed latch system prevents accidental opening of the container and assures a simplified handling for the sterilization preparation.

The optimized sealing system assures a safe fixing of the filter.

# Accessories



Paper Filter with indicator 235 x 118 mm PU 100 pieces Teflon® permanent Filter 215 x 95 mm PU 2 pieces



### 85.327.70

Latch Seal for sterilization containers, plastic, blue, PU 100 pieces

### 85.312.XX

Labelling Tags from aluminium in 9 different colors **Bottom and lid** is perforated, optimized latch system, incl. 2 long-term textile filters Dimensions in mm:

### Outside:

Width 310 / Depth 190 / Height X

#### Inside:

Width 280 / Depth 182 / Height X



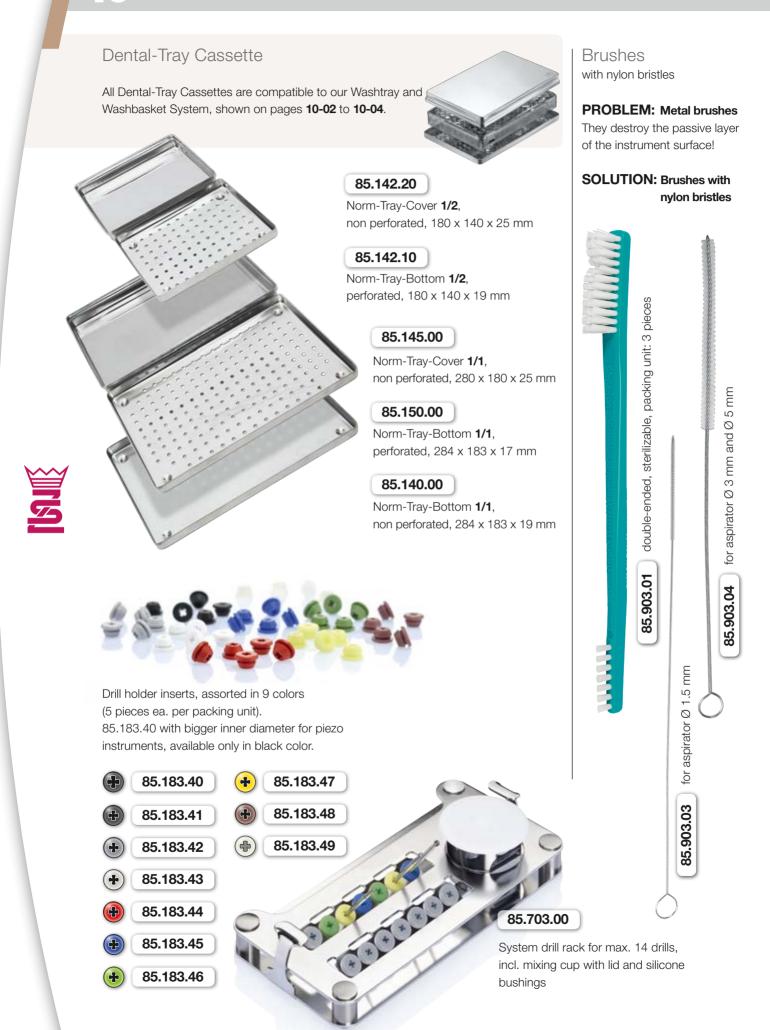












# **ZEPF** Medicine Cups

# 85.252.25

Medicine Cup, stainless steel, Ø 60 mm x 27 mm high, 25 ccm



85.251.00

Mixing Cup, stainless steel, with plastic lid, Ø 4 cm



Medicine Cup, stainless steel, with plastic lid,  $\emptyset$  40 mm x 30 mm high. usable on both sides



Medicine Cup, stainless steel, with plastic lid, Ø 40 mm x 25 mm high, usable on both sides







in a dispensing bottle and in an oil pen



24.950.12

Oil Pen, 12 ml



Dispensing bottle, 50 ml





# Universal Toolbox for the **ZEPF CMF** SYSTEM

The universal tool box is used for storing the tools for the sets CMS + ARCS. The tool box offers enough space for the following items:

- Screwdriver handle, big and small, each with dental connection, in the new optimized **ZEPF**-Design. They have a socket for exchangeable blades of all different diameters. The use of the handles is easy and intuitive while changing the blades.
- The blade holder allows an extra secure fixing of the screw heads on the blade insert.
- The pilot drills and the slide hole drill both have a graduation to allow a safe depth orientation.
- The inserting assistant is used for areas with tight space conditions.
- The Pin Applicator 47.950.02 which fits in the screwdriver handles completes the set for fastening foils and membranes.



Pin Applicator with dental connection

# Screw Rack for the Universal Toolbox

The Screw Racks are available in the following configurations:

- **85.540.60** Screw Rack Ø 1.0 / 1.2 mm each 4 rows + 2 rows Ø 1.5 mm to accommodate 5 screws
- **85.540.65** Screw Rack Ø 1.2 / 1.5 mm each 5 rows to accommodate 5 screws

The packing unit for the screws is 5 pieces.

An easy identification of the screws is guaranteed by using the length markers in the tray.

The colored pin with length marking is assigned to the respective screw diameter, thus allowing the determination of the screw length and a clear lot traceability in the box.



85.540.65

Screw Rack Ø 1.2 / 1.5 mm each 5 rows to accommodate 5 screws



Screw Rack Ø 1.0 / 1.2 mm each 4 rows + 2 rows Ø 1.5 mm to accommodate 5 screws



CMF-Box for Screw Systems Ø 1.0 mm, Ø 1.2 mm and Ø 1.5 mm



# Washbasket for the **ZEPF CMF**SYSTEM

Following the Zepf-Care Series, the modularly composable components for the **ZEPF** CMF SYSTEM were developed, offering a washbasket with appropriate combination options.

The actual tools can be organized depending on the desired diameter.

This guarantees an RKI compliant reprocessing of the CMF SYSTEM.



## 85.195.00

Washbasket 1/1 as rack for the remaining components

# Accessories for the Washbasket



### 47.503.53

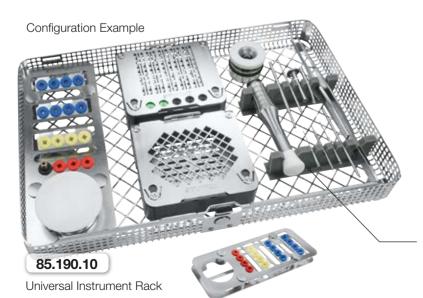
Screw and Pin Box for 2 x 5 screws Ø 1.2. 1 x 5 screws Ø 1.5, 10 membrane pins and a small storage space for instruments, membranes, bone plates etc.

## 47.503.50

Screw and Pin Box for 3 x 5 screws Ø 1.0. 10 membrane pins and a small storage space for instruments, membranes, bone plates etc.



Box for receiving e.g. titanium plates

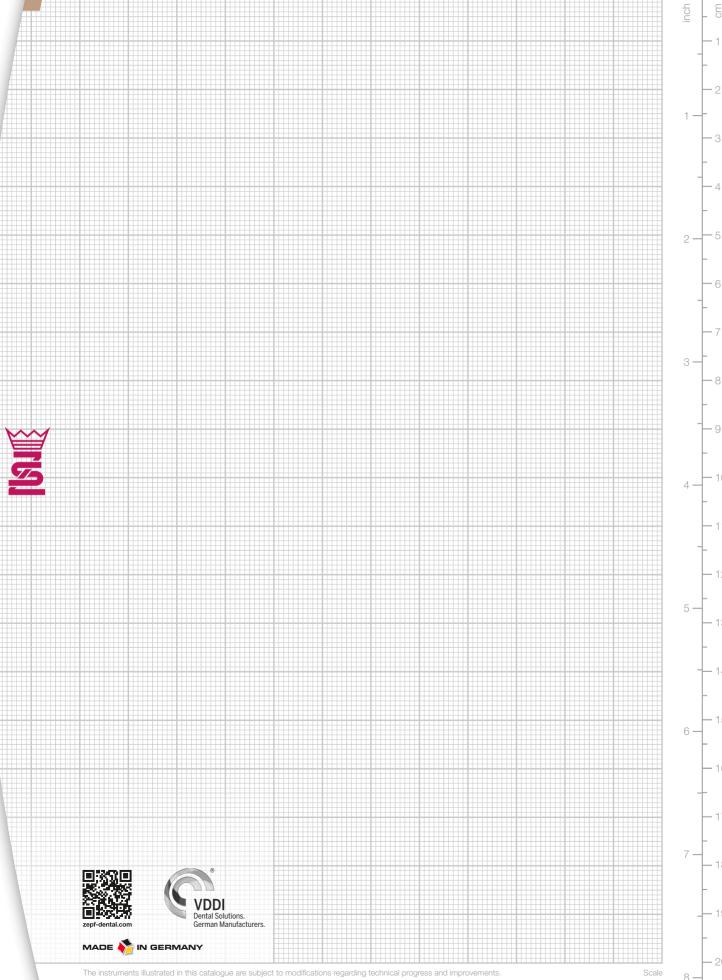




# 85.251.04

Mixing Cup with lid, stainless steel, Ø 4 cm

Profile for instruments with individual water jet cutting



zepf-dental.com

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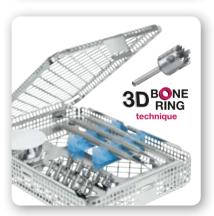




















Bowdler-Henry's Rake

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+49(0)7464/98880

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Tunneling Instrument

Tweezers anatomical

Twist-Ex Extracting Forceps Kit

Universal Curette stainless steel

Universal Crown Scissors

Universal Curette bionik

Universal Forceps Universal Prophylaxis Set

**Tweezers** 

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Xtool Set

Z

Yildirim Drilling Sleeve

ZEPF-Care System

Zepf-Line Periotome

Z-Shape Sickle Curette

Z-Shape Sickle Scaler

Z-Shape Handle

Zaufal-Jansen Bone Rongeur Forceps

Z-Shape Gracey M5 Prophylaxis Set

Zepf, Original Sharpening Stone

# Numerical Index

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All medical devices according to the Medical Device Directive 93/42/EEC are marked with CE in the numerical index. All CE marked medical devices that have to be provided with the notified body are marked with \* next to the CE mark, in the numerical index. The notified body is available through our latest valid certificates. These are available per request or download from zepf-dental.com.





















# <sup>11-08</sup> Numerical Index

08.902.031HF	07-29	€*
08.906.014C	07-27	C€*
08.906.016C	07-27	€*
08.906.018C	07-27	€*
08.906.023C	07-29	€*
08.906.029C	07-29	C€*
08.910.01	07-20	<b>C</b> €*
08.910.02	07-20	<b>C</b> €*
08.910.03	07-20	<b>C</b> €*
08.910.04	07-20	C€*
08.910.05	07-20	<b>C</b> €*
08.910.06	07-20	€*
08.910.07	07-20	€*
08.910.08	07-20	€*
08.910.08F	07-19	<b>C</b> €*
08.910.08S	07-19	<b>C</b> €*
08.910.09	07-20	€*
08.910.09F	07-19	C€*
08.910.09S	07-19	€*
08.910.10	07-20	€*
08.910.10F	07-19	€*
08.910.10S	07-19	€*
08.910.11	07-20	€*
08.910.11F	07-19	€*
08.910.11S	07-19	<b>C</b> €*
08.910.12	07-20	<b>C</b> €*
08.910.13	07-20	C€*
08.910.13F	07-19	C€*
08.910.13S	07-19	C€*
08.910.22	07-19	€*
08.911.30	07-20	<b>C</b> €*
08.912.10	07-20	€*
08.912.50	07-20	€*
08.912.75	07-20	<b>C</b> €*
08.915.02	07-35	€*
08.915.05	07-35	€*
08.917.00	07-35	C€
08.917.05	07-35	C€
08.917.07	07-35	C€
08.917.13	07-35	C€
08.917.20	07-35	C€
08.920.03	07-20	<b>C</b> €*
08.920.04	07-20	€*
08.920.05	07-20	€*
08.920.06	07-20	€*
08.920.13	07-20	€*
08.920.16	07-20	€*
10.681.07	05-26	C€
10.681.13	05-26	C€
10.681.22	05-26	CE
10.681.29	05-26	C€
10.001.29	05-20	-

05-26 €

10.681.33

10.681.51	05-26	CE
10.681.52	05-26	C€
10.685.07	05-32	CE
10.685.13	05-32	CE
10.685.22	05-32	C€
10.685.29	05-32	CE
10.685.33	05-32	CE
10.685.51	05-32	C€
10.685.52	05-32	C€
101.24526B	06-30	C€
12.002.00Z	05-09	CE
12.007.00Z	05-09	CE
12.013.00Z	05-10	C€
12.017.00Z	05-09	CE
12.018.00Z	05-09	CE
12.021.90Z	05-12	CE
12.022.00Z	05-11	CE
12.033.01Z	05-11	CE
12.034.00Z	05-10	CE
12.034.00Z	05-12	C€
12.034.01Z	05-18	CE
12.034.07Z	05-12	CE
12.034.08Z	05-14	CE
12.035.00Z	05-14	CE
12.035.00Z	05-12	CE
12.035.01Z	05-12	<b>(€</b>
12.035.07Z	05-14	<b>(€</b>
12.035.08Z	05-14	€
12.036.00Z	05-13	€
12.036.00Z	05-19	€
12.036.01Z	05-13	€
12.036.01Z	05-19	€
12.036.07Z	05-14	(€
12.036.08Z	05-14	(€
12.044.15Z	05-15	CE
12.045.15Z	05-15	CE
12.045.15ZS	05-15	(€
12.045.15ZS	05-31	C€
12.045.15ZSTI	05-31	C€
12.051.01Z	05-10	C€
12.051.15Z	05-15	C€
12.051.15ZS	05-15	<b>(€</b>
12.051.15ZS	05-31	C€
12.051.15ZSTI	05-31	CE
12.059.00Z	05-17	CE
12.067.01Z	05-10	C€
12.067.17 <b>Z</b>	05-09	C€
12.067.18Z	05-09	C€
12.067.90Z	05-15	C€
12.067.95Z	05-13	C€
12.067.95Z	05-19	C€
12.073.01 <b>Z</b>	05-10	C€

12.079.00Z	05-11	CE
12.079.90Z	05-15	CE
12.079.95Z	05-13	CE
12.079.95Z	05-19	CE
12.087.00Z	05-11	CE
12.213.00Z	05-30	C€
12.213.00ZD	05-30	CE
12.213.00ZTI	05-30	CE
12.217.00Z	05-31	CE
12.217.00ZD	05-31	CE
12.217.00ZTI	05-31	CE
12.218.00Z	05-31	CE
12.218.00ZD	05-31	CE
12.218.00ZTI	05-31	CE
12.221.90Z	05-31	CE
12.221.90ZD	05-31	CE
12.221.90ZTI	05-31	CE
12.222.00Z	05-31	CE
12.222.00ZD	05-31	CE
12.222.00ZTI	05-31	CE
12.234.07Z	05-30	CE
12.234.07ZD	05-30	CE
12.234.07ZTI	05-30	CE
12.234.08Z	05-30	CE
12.234.08ZD	05-30	CE
12.234.08 <b>ZT</b> I	05-30	CE
12.235.07Z	05-30	CE
12.235.07ZD	05-30	CE
12.235.07ZTI	05-30	CE
12.235.08Z	05-31	CE
12.235.08ZD	05-31	C€
12.235.08 <b>ZTI</b>	05-31	C€
12.236.07 <b>Z</b>	05-30	C€
12.236.07ZD	05-30	C€
12.236.07 <b>ZTI</b>	05-30	C€
12.236.08Z	05-30	C€
12.236.08ZD	05-30	C€
12.236.08ZTI	05-30	C€
12.267.01Z	05-31	CE
12.267.01ZD	05-31	C€
12.267.01ZTI	05-31	CE
12.279.90Z	05-30	C€
12.279.90ZD	05-30	CE
12.279.90ZTI	05-30	CE
12.300.08	05-01	C€
12.300.08	05-04	C€
12.300.11	05-03	C€
12.300.11	05-05	C€
12.300.15	05-04	C€
12.300.16	05-04	C€
12.300.17	05-04	C€
12.300.20	05-04	CE



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12.300.30	05-05	C€
12.300.35	05-05	C€
12.300.45	05-03	CE
12.300.45	05-05	C€
12.300.47	05-05	C€
12.300.60	05-05	C€
12.300.65	05-05	C€
12.300.70	05-05	C€
12.300.75	05-05	CE
12.300.80	05-05	CE
12.302.00	05-02	CE
12.302.00	05-03	C€
12.302.00	05-04	CE
12.302.01	05-04	CE
12.303.00	05-02	CE
12.303.00	05-03	CE
12.303.00	05-04	CE
12.522.15Z	05-16	CE
12.522.16Z	05-16	C€
12.701.00Z	05-18	CE
14.001.00	05-20	CE
14.001.01	05-20	CE
14.010.09	05-20	CE
14.010.11	05-25	CE
14.016.00	05-21	CE
14.017.00	05-21	CE
14.018.15	05-21	CE
14.018.16	05-20	CE
14.023.00	05-20	CE
14.053.15	05-21	CE
14.053.16	05-21	CE
14.065.00	05-21	CE
14.069.00	05-22	C€
14.088.15	05-22	CE
14.088.16	05-22	CE
14.101.00	05-22	CE
14.150.00	05-23	CE
14.150.00D	05-23	CE
14.150.05	05-23	CE
14.150.10	05-24	CE
14.150.11	05-24	CE
14.151.00	05-23	CE
14.151.00D	05-23	CE
14.151.01	05-23	CE
14.151.05	05-23	C€
14.151.10	05-25	C€
14.151.11	05-24	C€
14.210.05	05-24	C€
14.217.00	05-24	C€
14.222.00	05-24	C€
14.222.00	05-25	C€
14.700.01		C€
14.700.01	05-16	

14.700.01Z	05-16	C€
14.700.10Z	05-17	C€
14.701.10Z	05-17	C€
15.021.90	05-35	C€
15.034.00	05-34	C€
15.034.01	05-34	
15.035.00	05-34	C€
15.035.01	05-34	C€
15.036.00	05-35	
15.036.01	05-35	
15.045.15	05-35	C€
15.051.15	05-35	C€
15.067.90	05-34	C€
15.079.90	05-35	
15.213.00	05-39	C€
15.213.00D	05-39	CE
15.217.00	05-39	C€
15.217.00D	05-39	
15.218.00 15.218.00D	05-39	C€
15.222.00	05-39	<b>(€</b>
15.222.00D	05-39	
15.234.07	05-38	C€
15.234.07D	05-38	C€
15.234.08	05-38	C€
15.234.08D	05-38	
15.235.07	05-38	€
15.235.07D	05-38	CE
15.235.08 15.235.08D	05-38	
15.236.07	05-38	C€
15.236.07D	05-39	CE
		C€
15.236.08 15.236.08D	05-39	CE
15.267.01	05-39	C€
15.267.01D	05-39	CE
15.279.90	05-39	C€
15.279.90D	05-39	C€
17.001.00	05-52	C€
17.001.01	05-52	C€
17.001.02	05-52	C€
17.001.03	05-52	C€
17.001.10	05-52	C€
17.001.11	05-52	C€
17.001.12	05-52	C€
17.001.13	05-52	C€
17.006.01	05-57	C€
17.006.02	05-57	C€
17.006.03	05-57	C€
17.006.04	05-57	C€
17.007.00	05-48	C€
17.007.01	05-42	C€

17.007.01	05-48	C€
17.007.01TI	05-42	C€
17.007.02	05-42	C€
17.007.02	05-48	C€
17.007.02TI	05-42	C€
17.007.03	05-42	C€
17.007.03	05-48	C€
17.007.03TI	05-42	C€
17.007.04	05-43	C€
17.007.04	05-48	C€
17.007.04TI	05-43	C€
17.007.05	05-43	C€
17.007.05	05-48	C€
17.007.05TI	05-43	C€
17.007.06	05-43	C€
17.007.06TI	05-43	C€
17.007.07	05-43	C€
17.007.07TI	05-43	C€
17.008.01	05-43	C€
17.008.01TI	05-43	C€
17.008.02	05-44	CE
17.008.02TI	05-44	CE
17.008.03	05-44	CE
17.008.03TI	05-44	CE
17.008.04	05-44	CE
17.008.04TI	05-44	CE
17.008.05	05-44	CE
17.008.05TI	05-44	CE
17.008.06	05-44	C€
17.008.06TI	05-44	CE
17.008.08	05-45	CE
17.008.08TI	05-45	CE
17.008.09	05-45	CE
17.008.09TI	05-45	CE
17.008.10	05-45	CE
17.008.10TI	05-45	CE
17.008.11	05-45	CE
17.008.11TI	05-45	CE
17.008.90	05-45	CE
17.008.90TI	05-45	CE
17.009.01	05-47	CE
17.009.02	05-47	CE
17.009.05	05-47	CE
17.010.02	05-56	CE
17.010.02	05-56	CE
17.013.00	05-50	C€
17.013.00	05-52	CE
17.013.01		
17.013.02	05-52	( E
	05-58	(E
17.014.01	05-58	€ (€
17.014.02	05-58	
17.020.01	05-58	C€



# <sup>11-10</sup> Numerical Index

17.020.02	05-58	C€
17.045.00	05-50	C€
17.045.04	05-50	C€
17.045.05	05-50	C€
17.051.01	05-54	C€
17.051.02	05-54	C€
17.051.03	05-54	C€
17.052.01	05-54	CE
17.052.02	05-54	CE
17.052.03	05-54	CE
17.053.02	05-54	CE
17.053.03	05-54	CE
17.055.01	05-54	C€
17.055.02	05-54	C€
17.055.03	05-54	C€
17.056.01	05-54	CE
17.056.02	05-54	CE
17.056.03	05-54	CE
17.100.08	05-57	CE
17.100.09	05-57	CE
17.100.10	05-57	CE
17.100.11	05-57	CE
17.100.35	05-56	CE
17.100.39	05-61	CE
17.100.40	05-61	CE
17.100.46	05-56	CE
17.100.57	05-56	CE
17.100.60	05-56	C€
17.100.61	05-56	CE
17.100.62	05-56	CE
17.101.60	05-56	C€
17.101.61	05-56	C€
17.101.62	05-56	CE
17.195.00	05-55	C€
17.200.01	05-53	CE
17.200.02	05-53	CE
17.200.03	05-53	CE
17.201.01	05-53	C€
17.201.02	05-53	CE
17.301.00	05-59	CE
17.302.00	05-59	C€
17.303.00	05-59	CE
17.304.00	05-59	CE
17.336.15	05-59	CE
17.336.16	05-61	CE
17.330.16		
17.337.15	05-61 05-61	( E
		<b>(€</b>
17.395.01	05-55	C 6
17.395.02	05-55	€
17.395.03	05-55	€
17.396.01	05-55	€
17.396.02	05-55	C€

17.396.03	05-55	C€
17.410.03	05-58	C€
17.677.16	05-59	C€
17.677.17	05-59	CE
17.700.00	07-12	C€
17.700.40	07-12	C€
17.700.45	07-12	C€
17.710.00	07-16	C€
19.010.00	04-21	C€
19.015.00	04-21	C€
19.015.50	04-21	C€
19.037.01	04-21	C€
19.060.00	04-24	C€
19.061.01	04-24	C€
19.061.02	04-24	C€
19.061.03	04-24	C€
19.061.13	04-24	C€
19.062.00	04-24	C€
19.063.01	04-24	C€
19.099.00	04-23	C€
19.125.00	04-21	C€
19.199.00	04-22	C€
19.200.00	04-04	C€
19.200.30	04-05	C€
19.201.11	04-04	C€
19.201.21	04-04	C€
19.201.31	04-04	C€
19.202.00	04-01	C€
19.202.00	04-04	C€
19.270.50	06-11	C€
19.272.00	09-04	C€
19.272.01	09-04	C€
19.272.02	09-04	C€
19.272.03	09-04	C€
19.272.10	09-04	C€
19.273.00	09-04	C€
19.274.00	09-03	C€
19.274.01	09-03	C€
19.274.13	09-03	C€
19.274.50	09-03	C€
19.274.60	09-03	C€
19.275.00	09-04	C€
19.275.01	09-04	C€
19.275.02	09-04	C€
19.275.04	09-04	C€
19.277.01Z	09-01	C€
19.279.00	09-05	C€
19.281.15TC	04-27	C€
19.281.15TC	09-02	C€
19.281.16	09-05	C€
19.509.10	03-37	C€
19.509.20	03-37	C€

19.512.03	03-39	C€
19.512.04	03-39	C€
19.512.06	03-39	C€
19.512.09	03-39	C€
19.512.13	03-39	C€
19.512.14	03-39	C€
19.512.16	03-39	C€
19.512.19	03-39	C€
19.513.03	03-38	C€
19.513.04	03-38	C€
19.513.05	03-38	C€
19.516.00	03-38	C€
19.521.00	03-38	C€
19.561.13	03-36	C€
19.574.14	06-42	C€
19.574.16	06-42	C€
19.576.13	06-42	C€
19.576.14	06-42	C€
19.576.16	06-42	C€
19.600.18	06-42	C€
19.600.25	06-42	C€
19.641.02	06-41	C€
19.641.03	06-41	C€
19.649.15	06-40	C€
19.649.30	06-40	C€
19.649.50	06-40	C€
19.649.60	03-36	C€
19.651.13	06-40	C€
19.651.13	07-29	C€
19.651.14	06-40	C€
19.651.14	07-29	C€
19.651.15	06-40	C€
19.651.15M	06-40	CE
19.651.15M	07-27	CE
19.651.30	06-40	(E
19.700.00	06-41	CE
19.700.05	06-41	€
19.710.18	06-41	(E
19.714.01	07-34	€
19.714.02	07-34	<b>(€</b>
19.714.03	07-34	(E
19.714.04	07-34	(E
19.714.16 19.750.00	07-34	(E
19.762.00	06-41	C €
22.011.03	02-08	CE
22.011.03	02-08	CE
22.024.04	02-00	C€
22.025.03	02-09	CE
22.025.03	07-04	C€
22.025.03	08-13	C€
22.025.03 22.025.03D	02-09	C€
	02-03	



22.031.08			
22.100.15         04-24         C€           22.101.15         04-24         C€           22.106.01         06-02         C€           22.107.21         03-36         C€           22.200.12         06-02         C€           22.200.13         06-02         C€           22.200.14         06-02         C€           22.200.20         06-02         C€           22.230.13         06-02         C€           22.230.14         06-02         C€           22.270.12         06-05         C€           22.278.15         06-04         C€           22.278.15         06-02         C€           22.279.15         06-02         C€           22.279.15         06-02         C€           22.279.15         06-02         C€           22.240.13         06-03         C€           22.310.12         06-05         C€           22.310.15         06-05         C€           22.408.11         06-03         C€           22.408.13         06-03         C€           22.408.14         06-03         C€           22.430.17         06-05         C€ <th>22.031.08</th> <th>03-36</th> <th>C€</th>	22.031.08	03-36	C€
22.101.15	22.051.03	02-08	C€
22.106.01	22.100.15	04-24	C€
22.106.01	22.101.15	04-24	C€
22.107.21		06-02	
22.200.12			
22.200.13			
22.200.14			
22.200.15			
22.200.20			
22.230.13			
22.230.14 22.270.12 06-05 C€ 22.272.15 06-04 C€ 22.278.12 06-02 C€ 22.278.15 06-02 C€ 22.278.15 06-02 C€ 22.279.15 06-02 C€ 22.281.15TC 04-27 C€ 22.310.12 06-05 C€ 22.400.13 06-03 C€ 22.400.14 06-03 C€ 22.408.11 06-03 C€ 22.408.14 06-03 C€ 22.408.16 06-03 C€ 22.408.16 06-03 C€ 22.416.15 06-05 C€ 22.430.17 06-05 C€ 22.480.12 06-03 C€ 22.480.15 06-05 C€ 22.480.15 06-05 C€ 22.480.15 06-05 C€ 22.480.15 06-05 C€ 22.480.15 06-03 C€ 22.480.15 06-04 C€ 22.488.10 06-05 C€ 22.488.10 06-04 C€ 22.488.10 06-04 C€ 22.488.20 06-04 C€ 22.489.00 06-04 C€ 22.289.00			
22.270.12			
22.272.15			
22.278.12			
22.278.15			
22.279.15			
22.281.15TC			
22.310.12			
22.310.15		-	
22.400.13	22.310.12	06-05	C€
22.400.14	22.310.15	06-05	C€
22.408.11	22.400.13	06-03	C€
22.408.13	22.400.14	06-03	C€
22.408.14	22.408.11	06-03	C€
22.408.16	22.408.13	06-03	C€
22.408.20	22.408.14	06-03	C€
22.416.15	22.408.16	06-03	C€
22.430.17	22.408.20	06-03	C€
22.450.18	22.416.15	06-05	C€
22.480.12	22.430.17	06-05	C€
22.480.15	22.450.18	06-05	C€
22.481.12	22.480.12	06-03	C€
22.481.15	22.480.15	06-03	C€
22.481.15	22.481.12	06-03	C€
22.486.15 06-05 C€ 22.488.12 06-04 C€ 22.488.15 06-04 C€ 22.488.20 06-05 C€ 22.489.00 06-04 C€ 22.489.00 07-04 C€ 22.489.00M 06-04 C€ 22.489.00M 08-13 C€ 22.489.01 06-04 C€ 22.523.13 03-37 C€ 22.523.13 04-27 C€ 22.523.90D 03-37 C€ 22.810.17 08-09 C€ 22.810.17 08-09 C€	22.481.15	06-03	
22.486.15 06-05 C€ 22.488.12 06-04 C€ 22.488.15 06-04 C€ 22.488.20 06-05 C€ 22.489.00 06-04 C€ 22.489.00 07-04 C€ 22.489.00M 06-04 C€ 22.489.00M 08-13 C€ 22.489.01 06-04 C€ 22.523.13 03-37 C€ 22.523.13 04-27 C€ 22.523.90D 03-37 C€ 22.810.17 08-09 C€ 22.810.17 08-09 C€	22.486.12	06-05	C€
22.488.12 06-04 C€ 22.488.15 06-04 C€ 22.488.20 06-05 C€ 22.489.00 06-04 C€ 22.489.00 07-04 C€ 22.489.00M 06-04 C€ 22.489.00M 08-13 C€ 22.489.01 06-04 C€ 22.523.13 03-37 C€ 22.523.13 04-27 C€ 22.523.90D 03-37 C€ 22.810.17 08-09 C€ 22.810.17 08-09 C€			
22.488.15 06-04 C€ 22.488.20 06-05 C€ 22.489.00 06-04 C€ 22.489.00 07-04 C€ 22.489.00M 06-04 C€ 22.489.00M 08-13 C€ 22.489.01 06-04 C€ 22.523.13 03-37 C€ 22.523.90D 03-37 C€ 22.523.90D 04-27 C€ 22.810.17 08-09 C€ 22.810.17 08-13 C€			
22.488.20 06-05 C€ 22.489.00 06-04 C€ 22.489.00 07-04 C€ 22.489.00M 06-04 C€ 22.489.00M 08-13 C€ 22.489.01 06-04 C€ 22.523.13 03-37 C€ 22.523.13 04-27 C€ 22.523.90D 03-37 C€ 22.523.90D 04-27 C€ 22.810.17 08-09 C€ 22.810.17 08-13 C€			
22.489.00 06-04 C€ 22.489.00 07-04 C€ 22.489.00M 06-04 C€ 22.489.00M 08-13 C€ 22.489.01 06-04 C€ 22.523.13 03-37 C€ 22.523.13 04-27 C€ 22.523.90D 03-37 C€ 22.523.90D 04-27 C€ 22.810.17 08-09 C€ 22.810.17 08-13 C€			-
22.489.00 07-04 C€ 22.489.00M 06-04 C€ 22.489.00M 08-13 C€ 22.489.01 06-04 C€ 22.523.13 03-37 C€ 22.523.90D 03-37 C€ 22.523.90D 04-27 C€ 22.810.17 08-09 C€ 22.810.17 08-13 C€			
22.489.00M 06-04 C€ 22.489.00M 08-13 C€ 22.489.01 06-04 C€ 22.523.13 03-37 C€ 22.523.90D 03-37 C€ 22.523.90D 04-27 C€ 22.810.17 08-09 C€ 22.810.17 08-13 C€			
22.489.00M       08-13       C€         22.489.01       06-04       C€         22.523.13       03-37       C€         22.523.13       04-27       C€         22.523.90D       03-37       C€         22.523.90D       04-27       C€         22.810.17       08-09       C€         22.810.17       08-13       C€			
22.489.01 06-04 C€ 22.523.13 03-37 C€ 22.523.13 04-27 C€ 22.523.90D 03-37 C€ 22.523.90D 04-27 C€ 22.810.17 08-09 C€ 22.810.17 08-13 C€			
22.523.13       03-37       C€         22.523.13       04-27       C€         22.523.90D       03-37       C€         22.523.90D       04-27       C€         22.810.17       08-09       C€         22.810.17       08-13       C€			
22.523.13       04-27       C€         22.523.90D       03-37       C€         22.523.90D       04-27       C€         22.810.17       08-09       C€         22.810.17       08-13       C€			
22.523.90D       03-37       C€         22.523.90D       04-27       C€         22.810.17       08-09       C€         22.810.17       08-13       C€			
22.523.90D       04-27			
22.810.17       08-09       C€         22.810.17       08-13       C€			
<b>22.810.17</b> 08-13 <b>C</b> €			
<b>22.810.17</b>   08-15   <b>C</b> €	22.810.17	08-13	
	22.810.17	08-15	C€

22.810.17D	08-09	C€
22.811.17	08-09	C€
22.811.17D	08-09	C€
22.812.17	08-10	CE
22.814.17	08-10	C€
22.815.17	08-09	C€
22.816.17	08-09	C€
22.820.17	08-10	C€
22.820.17D	08-10	C€
22.820.17TC	08-10	C€
22.821.17	08-10	C€
22.821.17D	08-10	CE
22.824.17	06-03	CE
22.830.17	08-04	CE
23.050.10	06-07	C€
23.051.10	06-07	C€
23.054.12	06-07	C€
23.055.12	06-07	CE
23.058.12	06-07	C€
23.059.12	06-07	CE
23.060.12	06-07	C€
23.061.12	06-07	CE
23.062.12	06-07	C€
23.063.12	06-07	CE
23.098.14	06-06	C€
23.099.14	06-06	C€
23.104.14	06-07	C€
23.105.14	06-07	C€
23.105.50	06-46	C€
23.106.14	06-07	C€
23.106.16	06-07	C€
23.106.18	06-07	C€
23.107.14	06-07	C€
23.107.16	06-07	C€
23.107.18	06-07	C€
23.120.12	04-26	C€
23.705.09	06-07	C€
23.709.11	06-06	C€
23.740.20	06-06	C€
23.741.20	06-06	C€
23.781.15	06-06	C€
23.782.15	06-06	C€
24.058.01	06-45	C€
24.058.02	06-45	C€
24.058.03	06-45	C€
24.058.04	06-45	C€
24.058.10	06-45	C€
24.061.22	02-04	C€
24.061.24	02-04	C€
24.062.24	02-04	C€
24.062.24.	02-04	C€
24.062.30	02-06	C€

24.062.31	02-06	C€
24.067.22	02-04	C€
24.067.24	02-04	C€
24.070.22	02-04	C€
24.070.24	02-04	C€
24.071.22	02-04	C€
24.071.24	02-04	C€
24.072.22	02-04	C€
24.072.22.	07-03	C€
24.074.13	03-37	C€
24.074.15	03-37	C€
24.074.16	03-37	C€
24.074.17	03-37	CE
24.075.22	02-04	CE
24.075.24	02-04	CE
24.080.01	02-04	C€
24.086.01	02-03	CE
		CE
24.087.00	02-03	
24.087.02	08-13	(E
24.089.02	02-03	(E
24.089.02	06-08	<b>(</b> €
24.098.03A	07-03	CE
24.099.08	02-05	€
24.099.09	02-05	C€
24.099.17	02-05	C€
24.099.23	02-05	C€
24.099.25	02-05	C€
24.101.08	02-10	C€
24.101.09	02-10	C€
24.101.17	02-10	C€
24.101.23	02-10	C€
24.102.03A	02-10	C€
24.102.08	02-10	C€
24.102.09	02-10	C€
24.102.17	02-10	C€
24.102.23	02-10	C€
24.112.05	02-10	C€
24.114.00	08-13	C€
24.124.06	02-10	C€
24.201.01G	03-16	C€
24.201.01GM5	03-13	C€
24.201.01GM5OX	03-06	C€
24.201.01GM5-TI	03-21	C€
24.201.05L	03-14	C€
24.201.05L	03-19	C€
24.201.05L	08-12	C€
24.201.05L-TI	03-20	C€
24.202.03G	03-16	C€
24.203.05G	03-12	C€
24.203.05G	03-15	C€
24.203.05G	03-16	C€
24.204.11G	03-12	C€



24.204.11G	03-15	C€
24.204.11G	03-17	CE
24.204.11GM5	03-13	CE
24.204.11GM5OX	03-06	CE
24.204.11GM5-TI	03-21	C€
24.204.15G	03-17	C€
24.205.06HF	07-03	CE
24.205.07G	03-12	CE
24.205.07G	03-15	C€
24.205.07G	03-16	C€
24.205.07GM5	03-13	C€
24.205.07GM5OX	03-06	C€
24.205.07GM5-TI	03-21	C€
24.206.09G	03-16	C€
24.207.02C	03-18	C€
24.207.04C	03-18	CE
24.207.04C-TI	03-20	CE
24.207.06HF	07-03	C€
24.207.13C	03-18	CE
24.207.13G	03-12	C€
24.207.13G	03-15	C€
24.207.13G	03-17	CE
24.207.13GM5	03-13	CE
24.207.13GM5OX	03-06	CE
24.207.13GM5-TI	03-21	C€
24.207.13MC	03-18	C€
24.207.17G	03-17	C€
24.207.17L	03-19	C€
24.207.17MC	03-18	C€
24.207.23	03-14	C€
24.207.23	03-19	CE
24.208.02CI	03-22	C€
24.208.02T	03-23	C€
24.208.03L	03-14	C€
24.208.03L	03-19	C€
24.208.03L	08-12	C€
24.208.03L-TI	03-20	C€
24.208.04S	03-12	C€
24.208.04S	03-13	C€
24.208.04S	03-14	C€
24.208.04S	03-15	C€
24.208.04S	03-23	C€
24.208.04SD	03-23	C€
24.208.04SDOX	03-07	C€
24.208.04SOX	03-06	C€
24.208.06H	03-15	C€
24.208.06H	03-22	C€
24.208.06HF	03-22	C€
24.208.23A	03-23	C€
24.208.23AOX	03-07	C€
24.208.30\$	03-22	C€
04 000 0511	00 00	

24.208.35U

03-22 €

24.209.04GX	03-23	C€
24.210.01L	03-14	C€
24.210.01L	03-19	C€
24.210.01L	08-12	C€
24.210.01L-TI	03-20	C€
24.221.01GM5OX	03-06	C€
24.224.11GM5OX	03-06	CE
24.225.07GM5OX	03-06	CE
24.227.13GM5OX	03-06	CE
24.228.04SOX	03-06	CE
24.228.04SOX	03-07	CE
24.228.23AOX	03-07	CE
24.353.02	09-07	CE
24.437.01	03-28	CE
24.437.02	03-28	CE
24.437.03	03-29	CE
24.437.04	03-29	CE
24.437.07	03-29	CE
24.451.00	03-08	CE
24.451.01	03-08	CE
24.451.02	03-08	CE
24.451.02	03-09	€
24.451.03	03-08	€
24.451.06	03-08	€
24.453.03	03-10	€
24.453.12	03-10	CE
24.453.15	03-09	CE
24.453.22	03-10	CE
24.453.23	03-10	CE
24.454.01	03-11	CE
24.454.01	03-15	C€
24.454.02	03-11	C€
24.454.03	03-09	C€
24.454.03	03-11	CE
24.454.05	03-11	CE
24.454.06	03-11	CE
24.454.06TI	03-11	C€
24.455.06	03-09	C€
24.455.06	07-03	CE
24.488.01	03-28	CE
24.488.02	03-28	C€
24.490.01	03-30	C€
24.490.02	03-30	C€
24.491.01	03-31	C€
24.491.02	03-31	C€
24.493.01	03-30	C€
24.493.02	03-30	C€
24.493.03	03-30	C€
24.494.00	03-31	C€
24.495.01	03-31	C€
24.495.01	07-11	C€
24.495.02	03-31	C€
	-	

24.495.02	07-11	C€
24.495.03	03-31	C€
24.495.03	07-11	CE
24.548.01	06-42	CE
24.551.01	03-24	CE
24.551.03	03-24	CE
24.551.05	03-24	CE
24.551.07	03-24	C€
24.551.09	03-25	CE
24.551.11	03-25	CE
24.551.13	03-25	CE
24.551.15	03-25	CE
24.551.17	03-25	CE
24.551.17 24.551.24S	03-23	CE
24.553.01		CE
	03-26	
24.553.03	03-26	CE
24.553.05	03-26	(E
24.561.67	03-27	(€
24.565.33	03-27	(€
24.708.25	04-12	CE
24.708.27	04-12	€
24.708.29	04-12	< <p>C€</p>
24.708.31	04-12	< <p>C€</p>
24.709.35	04-13	€
24.709.39	04-13	C€
24.709.41	04-13	C€
24.709.45	04-13	C€
24.710.01OX	04-06	C€
24.710.02OX	04-06	C€
24.711.43	04-12	C€
24.711.44	04-12	C€
24.711.45	04-12	CE
24.725.00	03-34	CE
24.725.05	03-34	CE
24.725.07	03-34	CE
24.725.08	03-34	CE
24.725.09	03-34	CE
24.725.20	03-34	CE
24.725.21	03-35	C€
24.725.58	03-35	C€
24.725.70	03-35	C€
24.725.71	03-35	C€
24.725.72	03-35	C€
24.725.73	03-35	C€
24.725.74	03-35	C€
24.725.86	03-35	C€
24.733.18	04-13	C€
24.733.19	04-13	C€
24.733.20	04-13	C€
24.747.03	07-31	C€
24.747.04	08-13	C€
24.747.06	08-13	C€

24.751.101G	03-16	C€
24.751.101GM5	03-13	C€
24.751.101GM5OX	03-06	C€
24.751.101GM5-TI	03-21	CE
24.751.101L	03-14	C€
24.751.101L	03-19	C€
24.751.101L-TI	03-20	C€
24.751.102CI	03-22	C€
24.751.102G	03-16	CE
24.751.102GM5	03-13	CE
24.751.102GM5OX	03-06	C€
24.751.102GM5-TI	03-21	CE
24.751.102L	03-14	CE
24.751.102L	03-19	C€
24.751.102LC	03-18	CE
24.751.102L-TI	03-20	CE
24.751.102RC	03-18	CE
24.751.102TA	03-23	C€
24.751.102TA	03-23	C€
24.751.103G	03-16	C€
24.751.103G 24.751.103L	03-16	CE
24.751.103L	03-14	CE
24.751.103L 24.751.103L-TI		
	03-20	<b>(€</b>
24.751.103TA	03-23	CE
24.751.104	03-34	<b>C€</b>
24.751.104G	03-16	<b>(€</b>
24.751.104L	03-14	<b>(€</b>
24.751.104L	03-19	CE
24.751.104LC	03-18	CE
24.751.104LC-TI	03-20	C€
24.751.104L-TI	03-20	C€
24.751.104RC	03-18	C€
24.751.104RC-TI	03-20	CE
24.751.104XL	03-23	C€
24.751.104XR	03-23	C€
24.751.105	03-34	C€
24.751.105G	03-12	C€
24.751.105G	03-15	C€
24.751.105G	03-16	C€
24.751.105L	03-14	C€
24.751.105L	03-19	C€
24.751.105L-TI	03-20	C€
24.751.106G	03-12	C€
24.751.106G	03-15	C€
24.751.106G	03-16	C€
24.751.106H	03-15	C€
24.751.106H	03-22	C€
24.751.106HF	03-22	C€
24.751.106HF	07-03	C€
24.751.106L	03-14	C€
24.751.106L	03-19	C€
24.751.106L-TI	03-20	C€

24.751.107G	03-12	C€
24.751.107G	03-15	C€
24.751.107G	03-16	C€
24.751.107GM5	03-13	CE
24.751.107GM5OX	03-06	C€
24.751.107GM5-TI	03-21	C€
24.751.107H	03-15	C€
24.751.107H	03-22	C€
24.751.107HF	03-22	CE
24.751.107HF	07-03	CE
24.751.108	03-35	CE
24.751.108G	03-12	CE
24.751.108G	03-15	CE
24.751.108G	03-16	C€
24.751.108GM5	03-13	CE
24.751.108GM5OX	03-06	C€
24.751.108GM5-TI	03-21	C€
24.751.109	03-35	C€
24.751.109G	03-16	C€
24.751.110	03-34	CE
24.751.110G	03-16	C€
24.751.111	03-34	CE
24.751.111G	03-12	C€
24.751.111G	03-15	C€
24.751.111G	03-17	C€
24.751.111GM5	03-13	C€
24.751.111GM5OX	03-06	C€
24.751.112G	03-12	C€
24.751.112G	03-15	C€
24.751.112G	03-17	C€
24.751.112GM5	03-13	C€
24.751.112GM5OX	03-06	C€
24.751.112L	03-34	C€
24.751.112R	03-34	C€
24.751.113C	03-18	C€
24.751.113C	03-34	C€
24.751.113G	03-12	C€
24.751.113G	03-15	C€
24.751.113G	03-17	C€
24.751.113GM5	03-13	C€
24.751.113GM5OX	03-06	C€
24.751.113GM5-TI	03-21	C€
24.751.113L	03-34	C€
24.751.113MC	03-18	C€
24.751.113R	03-34	CE
24.751.114C	03-18	C€
24.751.114C	03-34	C€
24.751.114G	03-12	C€
24.751.114G	03-15	C€
24.751.114G	03-17	C€
24.751.114GM5	03-13	€
24.751.114GM5OX	03-06	C€

24.751.114GM5-TI	03-21	C€
24.751.114MC	03-18	C€
24.751.115G	03-17	C€
24.751.116G	03-17	C€
24.751.117MC	03-19	C€
24.751.118G	03-17	C€
24.751.118MC	03-19	C€
24.751.123AL	03-23	C€
24.751.123AR	03-23	C€
24.751.123L	03-14	C€
24.751.123L	03-19	C€
24.751.123R	03-14	C€
24.751.123R	03-19	C€
24.751.126	07-02	C€
24.751.130	03-22	C€
24.751.131	03-22	C€
24.751.135UL	03-22	C€
24.751.135UR	03-22	C€
24.751.148	03-35	C€
24.751.149	03-35	C€
24.751.150	07-02	C€
24.751.153	03-35	C€
24.751.155	07-03	C€
24.751.156	07-03	C€
24.751.167	03-35	C€
24.751.168	03-35	C€
24.751.169	03-35	C€
24.751.169	03-35	C€
24.751.170	03-35	C€
24.751.171	03-35	C€
24.751.172	03-35	C€
24.751.172	03-35	C€
24.751.172	03-35	C€
24.751.173	03-35	C€
24.751.176 S	07-02	C€
24.751.177	07-02	C€
24.751.178	07-02	C€
24.751.179	03-35	C€
24.751.179	07-02	C€
24.751.204L	03-12	C€
24.751.204L	03-13	C€
24.751.204L	03-14	C€
24.751.204L	03-15	C€
24.751.204L	03-23	C€
24.751.204LD	03-23	C€
24.751.204LOX	03-06	C€
24.751.204LOX	03-07	C€
24.751.204LOX	03-07	C€
24.751.204R	03-12	C€
24.751.204R	03-13	C€
24.751.204R	03-14	C€
24.751.204R	03-15	C€



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24.751.204R         03-23         C€           24.751.204RD         03-23         C€           24.751.204ROX         03-07         C€           24.751.204ROX         03-07         C€           24.751.318Ti         04-02         C€           24.751.319Ti         04-03         C€           24.751.320Ti         04-05         C€           24.751.320Ti         04-05         C€           24.751.321Ti         04-02         C€           24.751.322Ti         04-02         C€           24.751.323Ti         04-02         C€           24.751.323Ti         04-02         C€           24.751.323Ti         04-02         C€           24.751.323Ti         04-02         C€           24.751.325Ti         04-02         C€           24.751.325Ti         04-02         C€           24.751.325Ti         04-02         C€           24.751.325Ti         04-03         C€           24.751.325Ti         04-03         C€           24.751.327Ti         04-03         C€           24.751.331Ti         04-03         C€           24.751.401Ti         04-03         C€           <			
24.751.204ROX	24.751.204R	03-23	C€
24.751.204ROX	24.751.204RD	03-23	C€
24.751.204ROX	24.751.204ROX	03-06	C€
24.751.318Ti	24.751.204ROX	03-07	C€
24.751.319Ti	24.751.204ROX	03-07	C€
24.751.319Ti	24.751.318Ti	04-02	C€
24.751.320Ti	24.751.319Ti	04-03	C€
24.751.320Ti	24.751.319Ti	04-05	CE
24.751.321Ti	24.751.320Ti	04-03	CE
24.751.322Ti	24.751.320Ti	04-05	C€
24.751.323Ti	24.751.321Ti	04-02	C€
24.751.323Ti	24.751.322Ti	04-02	C€
24.751.323Ti	24.751.323Ti	04-02	C€
24.751.324Ti	24.751.323Ti	04-02	C€
24.751.325Ti	24.751.323Ti	04-05	CE
24.751.325Ti	24.751.324Ti	04-02	CE
24.751.325Ti       04-05       C€         24.751.326Ti       04-02       C€         24.751.327Ti       04-02       C€         24.751.328Ti       04-03       C€         24.751.329Ti       04-03       C€         24.751.330Ti       04-03       C€         24.751.331Ti       04-03       C€         24.751.332Ti       04-03       C€         24.751.401Ti       04-03       C€         24.751.402Ti       04-03       C€         24.751.403Ti       04-03       C€         24.751.512       07-02       C€         24.755.02       03-05       C€         24.755.03       03-05       C€         24.853.14       07-03       C€         24.914.10       03-32       C€         24.914.25       03-32       C€         24.914.30       03-33       C€         24.914.45       03-33       C€         24.914.45       03-33       C€         24.916.10       03-33       C€         24.923.10       05-56       C€         24.926.10       03-32       C€         24.950.00       03-32       C€ <th>24.751.325Ti</th> <th>04-02</th> <th>CE</th>	24.751.325Ti	04-02	CE
24.751.326Ti	24.751.325Ti	04-02	CE
24.751.327Ti	24.751.325Ti	04-05	CE
24.751.328Ti       04-03       C€         24.751.329Ti       04-03       C€         24.751.330Ti       04-03       C€         24.751.331Ti       04-03       C€         24.751.332Ti       04-03       C€         24.751.333Ti       04-03       C€         24.751.401Ti       04-03       C€         24.751.402Ti       04-03       C€         24.751.403Ti       04-03       C€         24.751.512       07-02       C€         24.755.02       03-05       C€         24.755.03       03-05       C€         24.853.14       07-03       C€         24.914.10       03-32       C€         24.914.25       03-32       C€         24.914.30       03-33       C€         24.914.40       03-33       C€         24.914.45       03-33       C€         24.916.10       03-33       C€         24.923.10       05-56       C€         24.926.10       03-32       C€         24.950.00       03-32       C€	24.751.326Ti	04-02	CE
24.751.329Ti       04-03       C€         24.751.330Ti       04-03       C€         24.751.331Ti       04-03       C€         24.751.332Ti       04-03       C€         24.751.333Ti       04-03       C€         24.751.401Ti       04-03       C€         24.751.402Ti       04-03       C€         24.751.403Ti       04-03       C€         24.751.512       07-02       C€         24.751.520W       07-02       C€         24.755.02       03-05       C€         24.755.03       03-05       C€         24.853.14       07-03       C€         24.853.24       07-03       C€         24.914.10       03-32       C€         24.914.25       03-32       C€         24.914.30       03-33       C€         24.914.45       03-33       C€         24.914.45       03-33       C€         24.916.10       03-32       C€         24.923.10       03-33       C€         24.923.10       03-32       C€         24.926.75       03-32       C€         24.950.00       03-32       C€ <th>24.751.327Ti</th> <th>04-02</th> <th>CE</th>	24.751.327Ti	04-02	CE
24.751.330Ti       04-03       C€         24.751.331Ti       04-03       C€         24.751.332Ti       04-03       C€         24.751.333Ti       04-03       C€         24.751.401Ti       04-03       C€         24.751.402Ti       04-03       C€         24.751.403Ti       04-03       C€         24.751.512       07-02       C€         24.751.520W       07-02       C€         24.755.02       03-05       C€         24.755.03       03-05       C€         24.853.14       07-03       C€         24.914.10       03-32       C€         24.914.25       03-32       C€         24.914.35       03-33       C€         24.914.40       03-33       C€         24.914.45       03-33       C€         24.916.10       03-32       C€         24.923.10       05-56       C€         24.923.10       05-56       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.751.328Ti	04-03	CE
24.751.331Ti       04-03       C€         24.751.332Ti       04-03       C€         24.751.333Ti       04-03       C€         24.751.401Ti       04-03       C€         24.751.402Ti       04-03       C€         24.751.403Ti       04-03       C€         24.751.404Ti       04-03       C€         24.751.512       07-02       C€         24.755.02       03-05       C€         24.755.03       03-05       C€         24.853.14       07-03       C€         24.914.10       03-32       C€         24.914.25       03-32       C€         24.914.30       03-33       C€         24.914.40       03-33       C€         24.914.45       03-33       C€         24.916.10       03-32       C€         24.918.15       03-33       C€         24.923.10       05-56       C€         24.926.10       03-32       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.751.329Ti	04-03	CE
24.751.332Ti       04-03       C€         24.751.333Ti       04-03       C€         24.751.401Ti       04-03       C€         24.751.402Ti       04-03       C€         24.751.403Ti       04-03       C€         24.751.404Ti       04-03       C€         24.751.512       07-02       C€         24.755.02       03-05       C€         24.755.03       03-05       C€         24.853.14       07-03       C€         24.914.10       03-32       C€         24.914.25       03-32       C€         24.914.30       03-33       C€         24.914.45       03-33       C€         24.914.45       03-33       C€         24.916.10       03-32       C€         24.918.15       03-33       C€         24.923.10       03-33       C€         24.923.10       05-56       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.751.330Ti	04-03	CE
24.751.333Ti       04-03       C€         24.751.401Ti       04-03       C€         24.751.402Ti       04-03       C€         24.751.403Ti       04-03       C€         24.751.404Ti       04-03       C€         24.751.512       07-02       C€         24.755.02       03-05       C€         24.755.03       03-05       C€         24.853.14       07-03       C€         24.914.10       03-32       C€         24.914.25       03-32       C€         24.914.35       03-33       C€         24.914.40       03-33       C€         24.914.45       03-33       C€         24.916.10       03-32       C€         24.923.10       03-33       C€         24.923.10       05-56       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.751.331Ti	04-03	CE
24.751.401Ti       04-03       C€         24.751.402Ti       04-03       C€         24.751.403Ti       04-03       C€         24.751.404Ti       04-03       C€         24.751.512       07-02       C€         24.755.02       03-05       C€         24.755.03       03-05       C€         24.853.14       07-03       C€         24.914.10       03-32       C€         24.914.25       03-32       C€         24.914.30       03-33       C€         24.914.40       03-33       C€         24.914.45       03-33       C€         24.916.10       03-32       C€         24.918.15       03-33       C€         24.923.10       03-33       C€         24.923.10       05-56       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.751.332Ti	04-03	CE
24.751.402Ti       04-03       C€         24.751.403Ti       04-03       C€         24.751.404Ti       04-03       C€         24.751.512       07-02       C€         24.755.02       03-05       C€         24.755.03       03-05       C€         24.853.14       07-03       C€         24.914.10       03-32       C€         24.914.25       03-32       C€         24.914.30       03-33       C€         24.914.45       03-33       C€         24.914.45       03-33       C€         24.916.10       03-32       C€         24.918.15       03-33       C€         24.923.10       03-33       C€         24.923.10       03-33       C€         24.926.10       03-32       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.751.333Ti	04-03	CE
24.751.403Ti       04-03       C€         24.751.404Ti       04-03       C€         24.751.512       07-02       C€         24.751.520W       07-02       C€         24.755.02       03-05       C€         24.755.03       03-05       C€         24.853.14       07-03       C€         24.914.10       03-32       C€         24.914.25       03-32       C€         24.914.35       03-33       C€         24.914.40       03-33       C€         24.914.45       03-33       C€         24.916.10       03-32       C€         24.918.15       03-33       C€         24.923.10       03-33       C€         24.923.10       05-56       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.751.401Ti	04-03	CE
24.751.404Ti       04-03       C€         24.751.512       07-02       C€         24.751.520W       07-02       C€         24.755.02       03-05       C€         24.755.03       03-05       C€         24.853.14       07-03       C€         24.853.24       07-03       C€         24.914.10       03-32       C€         24.914.25       03-32       C€         24.914.30       03-33       C€         24.914.40       03-33       C€         24.914.45       03-33       C€         24.916.10       03-32       C€         24.918.15       03-33       C€         24.923.10       03-33       C€         24.923.10       05-56       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.751.402Ti	04-03	C€
24.751.512       07-02       C€         24.751.520W       07-02       C€         24.755.02       03-05       C€         24.755.03       03-05       C€         24.853.14       07-03       C€         24.914.10       03-32       C€         24.914.25       03-32       C€         24.914.30       03-33       C€         24.914.45       03-33       C€         24.914.45       03-33       C€         24.916.10       03-32       C€         24.918.15       03-33       C€         24.923.10       03-33       C€         24.923.10       03-33       C€         24.926.10       03-32       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.751.403Ti	04-03	C€
24.751.520W       07-02       C€         24.755.02       03-05       C€         24.755.03       03-05       C€         24.853.14       07-03       C€         24.853.24       07-03       C€         24.914.10       03-32       C€         24.914.25       03-32       C€         24.914.30       03-33       C€         24.914.45       03-33       C€         24.914.45       03-33       C€         24.916.10       03-32       C€         24.919.15       03-33       C€         24.923.10       03-33       C€         24.923.10       03-33       C€         24.926.10       03-32       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.751.404Ti	04-03	C€
24.755.02       03-05       C€         24.755.03       03-05       C€         24.853.14       07-03       C€         24.853.24       07-03       C€         24.914.10       03-32       C€         24.914.25       03-32       C€         24.914.30       03-33       C€         24.914.45       03-33       C€         24.914.45       03-33       C€         24.916.10       03-32       C€         24.918.15       03-33       C€         24.923.10       03-33       C€         24.923.10       05-56       C€         24.926.10       03-32       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.751.512	07-02	C€
24.755.03       03-05       C€         24.853.14       07-03       C€         24.853.24       07-03       C€         24.914.10       03-32       C€         24.914.25       03-32       C€         24.914.30       03-33       C€         24.914.35       03-33       C€         24.914.40       03-33       C€         24.916.10       03-32       C€         24.918.15       03-33       C€         24.923.10       03-33       C€         24.923.10       05-56       C€         24.926.10       03-32       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.751.520W	07-02	C€
24.853.14       07-03       C€         24.853.24       07-03       C€         24.914.10       03-32       C€         24.914.25       03-32       C€         24.914.30       03-33       C€         24.914.35       03-33       C€         24.914.40       03-33       C€         24.914.45       03-33       C€         24.916.10       03-32       C€         24.919.15       03-33       C€         24.923.10       03-33       C€         24.926.10       03-32       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.755.02	03-05	C€
24.853.24       07-03       C€         24.914.10       03-32       C€         24.914.25       03-32       C€         24.914.30       03-33       C€         24.914.35       03-33       C€         24.914.40       03-33       C€         24.914.45       03-33       C€         24.916.10       03-32       C€         24.919.15       03-33       C€         24.923.10       03-33       C€         24.923.10       05-56       C€         24.926.10       03-32       C€         24.950.00       03-32       C€	24.755.03	03-05	C€
24.914.10       03-32       C€         24.914.25       03-32       C€         24.914.30       03-33       C€         24.914.35       03-33       C€         24.914.40       03-33       C€         24.914.45       03-33       C€         24.916.10       03-32       C€         24.918.15       03-33       C€         24.923.10       03-33       C€         24.923.10       05-56       C€         24.926.10       03-32       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.853.14	07-03	C€
24.914.25       03-32       C€         24.914.30       03-33       C€         24.914.35       03-33       C€         24.914.40       03-33       C€         24.914.45       03-33       C€         24.916.10       03-32       C€         24.918.15       03-33       C€         24.919.15       03-33       C€         24.923.10       03-33       C€         24.926.10       03-32       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.853.24	07-03	C€
24.914.30       03-33       C€         24.914.35       03-33       C€         24.914.40       03-33       C€         24.914.45       03-33       C€         24.916.10       03-32       C€         24.918.15       03-33       C€         24.919.15       03-33       C€         24.923.10       03-33       C€         24.923.10       05-56       C€         24.926.10       03-32       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.914.10	03-32	C€
24.914.35       03-33       C€         24.914.40       03-33       C€         24.914.45       03-33       C€         24.916.10       03-32       C€         24.918.15       03-33       C€         24.919.15       03-33       C€         24.923.10       03-33       C€         24.923.10       05-56       C€         24.926.10       03-32       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.914.25	03-32	C€
24.914.40       03-33       C€         24.914.45       03-33       C€         24.916.10       03-32       C€         24.918.15       03-33       C€         24.919.15       03-33       C€         24.923.10       03-33       C€         24.923.10       05-56       C€         24.926.10       03-32       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.914.30	03-33	C€
24.914.45       03-33       C€         24.916.10       03-32       C€         24.918.15       03-33       C€         24.919.15       03-33       C€         24.923.10       03-33       C€         24.923.10       05-56       C€         24.926.10       03-32       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.914.35	03-33	C€
24.916.10       03-32       C€         24.918.15       03-33       C€         24.919.15       03-33       C€         24.923.10       03-33       C€         24.923.10       05-56       C€         24.926.10       03-32       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.914.40	03-33	C€
24.918.15       03-33       C€         24.919.15       03-33       C€         24.923.10       03-33       C€         24.923.10       05-56       C€         24.926.10       03-32       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.914.45	03-33	C€
24.919.15       03-33       C€         24.923.10       03-33       C€         24.923.10       05-56       C€         24.926.10       03-32       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.916.10	03-32	C€
24.923.10       03-33       C€         24.923.10       05-56       C€         24.926.10       03-32       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.918.15	03-33	CE
24.923.10       05-56       C€         24.926.10       03-32       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.919.15	03-33	C€
24.926.10       03-32       C€         24.926.75       03-32       C€         24.950.00       03-32       C€	24.923.10	03-33	
24.926.75       03-32       C€         24.950.00       03-32       C€	24.923.10	05-56	C€
<b>24.950.00</b> 03-32 <b>C€</b>	24.926.10	03-32	CE
	24.926.75	03-32	CE
<b>24.950.10</b>   10-09   <b>C</b> €	24.950.00	03-32	C€
	24.950.10	10-09	C€

24.272.42	10.00	
24.950.12	10-09	C€
24.951.01	03-32	C€
24.961.05	07-01	C€
24.961.05	07-02	C€
24.961.06	07-01	C€
24.961.06	07-02	C€
24.967.05	08-15	C€
24.971.00	08-11	C€
24.971.00	08-12	C€
24.989.55OX	03-07	C€
24.990.35	03-15	C€
24.990.50	03-12	C€
24.990.55	03-13	C€
24.990.55OX	03-07	C€
24.990.60	03-14	C€
24.995.00	07-30	C€
24.995.01	07-28	C€
26.010.01OX	02-01	C€
26.010.02OX	02-01	C€
26.010.03OX	02-01	C€
26.010.04OX	02-01	C€
26.010.05OX	02-01	C€
26.010.06OX	02-01	C€
26.010.07OX	02-01	C€
26.010.08OX	02-01	C€
26.010.09OX	02-01	C€
26.010.10OX	02-01	C€
26.010.10OX	03-04	C€
26.120.00Ti	04-01	C€
26.120.01Ti	04-01	C€
26.120.10Ti	04-03	C€
26.120.10Ti	04-05	C€
26.120.11Ti	04-02	C€
26.120.121Ti	04-02	C€
26.120.121Ti	04-05	C€
26.120.122Ti	04-02	C€
26.120.122Ti	04-05	C€
26.120.12Ti	04-02	C€
26.120.12Ti	04-05	C€
26.120.13Ti	04-07	C€
26.120.14Ti	04-07	C€
26.120.20Ti	04-02	C€
26.120.21Ti	04-02	C€
26.120.25Ti	04-02	C€
26.120.25Ti	04-05	C€
26.120.30Ti	04-02	C€
26.120.31Ti	04-03	C€
26.120.321Ti	04-03	C€
26.120.321Ti	04-05	C€
26.120.322Ti	04-03	C€
26.120.322Ti	04-05	C€
26.120.32Ti	04-03	C€

26.120.32Ti	04-05	C€
26.120.40Ti	04-03	C€
26.120.50Ti	04-03	C€
26.120.60Ti	04-03	C€
26.120.70Ti	04-03	C€
26.122.00	04-25	C€
26.122.10	04-25	CE
26.123.01	04-25	CE
26.123.02	04-25	CE
26.130.01	04-11	C€
26.130.02	04-11	CE
26.130.03	04-11	CE
26.180.06	02-03	C€
26.180.07	03-09	CE
26.180.13	03-04	CE
26.181.01	03-04	CE
26.181.03	03-04	CE
26.181.04	02-03	CE
26.182.00	05-50	C€
26.182.01	05-50	C€
26.182.02	05-50	CE
26.182.03	05-50	CE
26.182.04	05-50	CE
26.182.11	05-50	CE
26.182.12	05-51	CE
26.182.13	05-51	C€
26.182.13 26.182.23	05-51	C€
26.182.24	05-51	C€
26.183.00	08-13	C€
26.191.01	02-03	CE
26.191.01 26.191.01	02-05	C€
26.191.02	02-03	C€
26.191.02 26.191.02	02-05	CE
26.191.02 26.191.03	+	C€
26.191.03 26.191.03	02-03	C€
	1	
26.191.04 26.191.04	02-03	(E
26.191.04	02-05	CE
26.193.01 26.193.02	03-02	(E
26.193.02	03-02	(E
26.193.03	03-02	(E
26.193.04	03-02	C€
26.193.05	03-02	
26.193.06	03-02	<b>(€</b>
26.193.07	03-02	CE
26.193.08	03-02	CE
26.193.09	03-02	CE
26.193.10	02-02	CE
26.193.10	03-02	CE
26.193.10	03-04	CE
26.193.11	03-03	C€
26.193.12	03-03	CE
26.193.13	03-03	C€

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26.193.14	03-03	C€
26.193.15	03-03	C€
26.193.15	03-09	C€
26.193.16	03-03	C€
26.193.17	03-03	C€
26.193.18	03-03	C€
26.193.19	03-03	C€
26.193.20	02-02	C€
26.193.20	03-03	CE
26.193.20	03-09	CE
26.194.01	03-03	CE
26.194.02	03-03	CE
26.194.03	03-03	CE
26.194.04	03-03	CE
26.194.05	03-03	C€
26.194.05	07-03	CE
26.194.06	03-03	C€
26.194.06	03-15	C€
26.194.07	03-03	C€
26.194.07	07-03	C€
26.194.08	03-03	C€
26.194.09	03-03	C€
26.194.10	02-02	C€
26.194.10	03-03	C€
26.194.11	03-03	C€
26.194.12	03-03	C€
26.194.13	03-03	C€
26.194.14	03-03	C€
26.194.15	03-03	C€
26.194.16	03-03	C€
26.194.17	03-03	C€
26.194.18	03-03	C€
26.194.19	03-03	CE
26.194.20	02-02	C€
26.194.20	03-03	C€
26.195.01	03-02	C€
26.195.02	03-02	C€
26.195.03	03-02	C€
26.195.04	03-02	C€
26.195.05	03-02	C€
26.195.06	03-02	C€
26.195.07	03-02	C€
26.195.08	03-02	C€
26.195.09	03-02	C€
26.195.10	03-02	C€
26.200.00	04-09	C€
26.200.01	04-09	C€
26.200.02	04-09	C€
26.200.03	04-09	C€
26.200.04	04-09	C€
26.200.13	04-10	C€
26.200.17	04-08	C€

26.200.18	04-08	C€
26.200.19	04-08	C€
26.200.35	04-10	C€
26.200.36	04-10	CE
26.200.37	04-10	CE
26.260.00	04-11	C€
26.260.01	04-11	CE
26.260.02	04-11	CE
26.426.45	04-08	CE
26.428.01	04-09	CE
26.428.02	04-09	CE
26.428.03	04-09	CE
26.428.04	04-09	CE
26.430.21	04-08	C€
26.690.01	05-49	C€
26.690.02	05-49	C€
26.690.03	05-49	C€
26.690.10	05-49	C€
28.110.01	09-07	C€
28.111.01	09-07	CE
28.114.00	09-07	CE
28.116.00	09-07	CE
28.121.00	04-15	CE
28.130.00	09-07	C€
28.161.13	09-07	C€
28.161.17	09-07	C€
28.601.00	04-16	C€
28.601.01	04-16	C€
28.601.02	04-16	C€
28.601.03	04-16	C€
28.601.04	04-16	C€
28.602.01	04-16	C€
28.602.02	04-16	C€
28.602.03	04-16	C€
28.603.01	04-16	C€
28.603.02	04-16	C€
28.603.03	04-16	C€
28.604.01	04-16	CE
28.604.02	04-16	CE
28.604.03	04-16	C€
28.606.00	04-17	C€
28.606.01	04-17	C€
28.606.02	04-17	C€
28.606.03	04-17	CE
28.606.04	04-17	CE
28.607.01	04-17	CE
28.607.02	04-17	CE
28.607.03	04-17	CE
		C€
28.608.01	04-17	
28.608.02	04-17	C€

28.631.01	04-14	C€
28.631.02	04-14	C€
28.631.03	04-14	C€
28.631.04	04-14	C€
28.632.01	04-14	C€
28.632.02	04-14	C€
28.632.03	04-14	C€
28.633.01	04-14	C€
28.633.02	04-14	C€
28.633.03	04-14	C€
28.634.01	04-14	C€
28.634.02	04-14	C€
28.634.03	04-14	C€
28.636.00	04-15	C€
28.636.01	04-15	C€
28.636.02	04-15	C€
28.636.03	04-15	C€
28.636.04	04-15	C€
28.637.01	04-15	C€
28.637.02	04-15	C€
28.637.03	04-15	C€
28.638.01	04-15	C€
28.638.02	04-15	C€
28.638.03	04-15	C€
28.640.01	04-18	C€
28.640.02	04-18	C€
28.640.03	04-18	C€
28.640.04	04-18	C€
28.640.10	04-19	C€
28.645.01	04-19	C€
28.645.02	04-19	C€
28.645.03	04-19	C€
28.645.04	04-19	C€
28.661.01	04-20	C€
28.661.02	04-20	C€
28.661.03	04-20	C€
28.662.01	04-20	C€
28.662.02	04-20	C€
28.662.03	04-20	C€
28.663.02	04-20	C€
28.663.03	04-20	C€
28.664.02	04-20	C€
28.664.03	04-20	C€
28.671.00	04-20	C€
28.672.00	04-20	C€
28.681.00	04-20	C€
28.682.00	04-20	C€
31.182.01	09-02	C€
31.184.01	09-06	C€
31.184.13	09-05	C€
31.185.00	09-06	C€
31.185.01	09-06	C€



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(U)	04/	90	00	U

31.185.02	09-05	C€
31.185.04	09-06	C€
31.185.10	09-06	C€
31.185.12	09-06	C€
31.683.00	07-39	C€
31.691.13	07-37	C€
31.692.00	07-37	C€
31.693.10	07-36	C€
31.760.11	06-43	C€
37.258.40	06-08	C€
37.258.43	06-08	C€
37.261.11	06-11	C€
37.261.14	06-11	C€
37.271.00	06-11	C€
37.351.02	06-08	CE
37.426.01	06-12	CE
37.426.02	06-12	CE
37.429.12	06-11	C€
37.429.14	06-11	C€
37.429.16	06-11	C€
37.437.15	06-09	C€
37.437.17	06-09	C€
37.438.15	06-18	C€
37.440.00	06-15	C€
37.441.01	06-13	C€
37.441.02	06-13	C€
37.443.00	06-08	C€
37.444.01	06-09	C€
37.445.01	02-05	C€
37.445.01	06-08	C€
37.446.04	06-11	C€
37.448.10	02-06	C€
37.448.20	02-06	C€
37.454.00	06-10	C€
37.454.02	06-10	C€
38.074.14	06-13	C€
38.076.16	06-13	C€
38.078.16	06-13	C€
38.426.01	06-14	C€
38.426.02	06-14	C€
38.426.03	06-14	C€
38.426.04	06-14	C€
38.426.05	06-14	C€
38.426.06	06-14	C€
38.426.07	06-14	C€
38.426.08	06-14	C€
38.426.09	06-14	C€
38.427.22	06-17	C€
38.428.02	06-16	C€
38.428.03	06-16	C€
38.428.04	06-16	C€
38.428.05	06-16	C€

38.428.06	06-16	C€
38.428.22	06-16	C€
38.430.03	06-15	C€
38.430.04	06-15	C€
38.430.05	06-15	C€
38.430.06	06-15	C€
38.438.04	06-17	C€
38.438.05	06-17	C€
38.438.06	06-17	C€
38.448.50	06-18	C€
38.452.00	06-12	C€
38.465.15	06-12	C€
38.467.08	06-12	C€
38.467.10	06-12	C€
38.471.15	06-13	C€
38.473.15	06-13	C€
41.010.17TC	08-08	C€
41.010.17TC-M	08-07	C€
41.011.17TC	08-08	C€
41.015.17	08-08	C€
41.015.17	08-12	C€
41.017.17	08-04	C€
41.200.15TC	08-07	C€
41.200.17TC	07-04	C€
41.200.17TC	08-07	C€
41.200.17TC	08-07	C€
41.200.17TC-K	08-06	C€
41.200.17TC-K	08-15	C€
41.201.15TC	08-07	C€
41.201.15TC	08-07	C€
41.201.17TC	08-07	C€
41.201.17TC-K	08-06	C€
41.240.12	06-39	C€
41.246.15TC	06-38	C€
41.250.15	06-39	C€
41.252.15TC	06-39	C€
41.252.15TC	08-12	C€
41.252.18TC	06-39	C€
41.256.14	06-38	C€
41.256.16	06-38	C€
41.256.18	06-38	C€
41.258.14TC	06-38	C€
41.258.16TC	06-38	C€
41.258.18TC	06-38	C€
41.262.14	06-37	C€
41.262.17	06-37	C€
41.264.14	06-37	C€
41.264.17	06-37	C€
41.310.14TC	06-37	C€
41.310.17TC	06-37	C€
41.317.17TC	06-37	C€
41.318.17TC	06-37	C€

41.352.15TC	06-39	C€
41.362.12	06-39	C€
41.368.16	06-37	C€
41.368.18	06-37	CE
41.500.17	06-47	C€
41.500.17M	06-47	C€
41.501.01	06-47	CE
41.501.01	07-10	CE
41.503.00	06-47	CE
41.503.01	05-47	C€
41.503.01	06-47	CE
41.506.17	06-47	CE
41.541.02WM	05-60	CE
41.541.03WM	05-60	CE
41.541.04WM	05-60	CE
41.541.05WM	05-60	CE
41.751.011LU	07-03	CE
41.751.012LU	07-03	CE
41.822.01	07-28	CE
41.822.02	07-28	CE
41.822.03	07-28	CE
41.822.04	07-28	CE
41.822.05	07-29	CE
41.822.11	07-29	CE
41.822.22	07-29	CE
41.822.33	07-29	CE
41.834.11	05-50	CE
41.845.11	06-20	CE
41.845.22	06-20	C€
41.845.33	06-20	C€
41.847.00	07-25	CE
41.847.00	07-26	CE
41.847.01	07-26	CE
41.847.02	07-26	CE
41.847.03	07-26	CE
41.847.05	07-26	CE
41.847.08	07-26	CE
41.847.09	07-26	C€
41.847.10	07-26	CE
41.848.01	07-24	CE
41.848.02	07-24	CE
41.848.03	07-24	CE
41.848.05	07-24	C€
41.848.08	07-24	CE
41.848.08	08-12	C€
41.848.51	07-23	C€
41.848.52	07-23	C€
41.848.53	07-23	C€
41.853.11	07-02	C€
41.853.21	07-02	C€
41.854.11	07-02	C€
41.854.12	07-02	C€



41.854.13	07-03	C€
41.854.21	07-02	C€
41.854.22	07-02	C€
41.854.23	07-03	CE
41.855.00Z	06-20	CE
41.855.00ZS	06-20	C€
41.855.01Z	05-48	C€
41.855.01Z	06-20	CE
41.855.01ZS	06-20	CE
41.855.02 <b>Z</b>	06-20	CE
41.855.02 <b>Z</b> S	06-20	CE
41.855.04Z	06-20	CE
41.855.20	07-03	CE
41.855.22	07-03	CE
41.862.11	06-21	CE
41.862.12	06-21	CE
41.862.13	06-21	CE
41.862.14	06-23	CE
41.862.21	06-23	CE
41.864.01	06-19	CE
41.864.02	06-19	CE
41.864.13	06-21	C€
41.864.13	08-15	C€
41.864.20	06-30	CE
41.864.30	06-23	CE
41.864.40	06-23	CE
41.864.50	06-23	C€
41.864.60	06-23	CE
41.868.01	07-30	€
41.868.02	07-30	C€
41.868.03	07-30	€
41.868.04	07-30	€
41.868.05	07-30	C€
41.868.06	07-31	CE
41.868.07	07-31	CE
41.868.07	07-29	CE
41.868.07	07-31	C€
41.868.08	07-31	C€
41.868.08M	07-27	CE
41.868.09	07-27	CE
41.874.04	06-19	€*
41.874.16	06-19	€*
41.877.23	06-19	€*
41.878.11	06-22	€*
41.878.12	06-22	<u>(ξ*</u>
41.878.13	06-22	€*
41.878.14	06-22	<b>€</b> *
41.881.01		<b>€</b> *
41.881.01	06-43	
	06-43	CE*
41.905.00	06-44	CE*
41.914.16	06-44	CE*
41.916.15	06-44	C€*

41.917.15	06-44	<b>C</b> €*
42.315.16	06-24	€*
42.315.16S	06-24	C€
42.316.15	06-24	C€
42.320.14	06-25	C€
42.320.15	06-25	C€
42.321.90	06-25	C€
42.324.15	06-24	C€
42.326.15	06-24	C€
42.328.15	06-24	C€
42.332.14	06-25	C€
42.334.17	06-25	C€
42.358.15	06-24	C€
42.360.15	06-24	C€
42.362.15	06-24	C€
42.404.16	06-26	C€
42.406.14	06-26	C€
42.620.18	06-26	C€
42.621.18	06-26	C€
42.646.15	06-26	C€
42.647.15	06-26	C€
42.650.18	06-25	C€
42.652.18	06-25	C€
46.005.65	06-28	C€
46.005.70	06-29	C€
46.007.00	06-28	C€
46.007.00	08-13	C€
46.007.01	06-28	C€
46.007.02	06-27	C€
46.007.02	07-04	C€
46.007.05	06-30	C€
46.007.08	06-27	C€
46.007.10	06-30	C€
46.007.20	06-30	C€
46.007.30	06-30	C€
46.007.31	06-30	C€
46.007.40	06-28	C€
46.007.45	06-28	C€
46.007.50	06-30	C€
46.010.03	06-29	C€
46.010.04	06-29	C€
46.013.00Z	06-29	C€
46.013.00Z	08-13	C€
46.013.00Z	08-14	C€
46.013.00Z	08-15	C€
46.013.05	06-29	C€
46.013.05	08-14	C€
46.013.05Z	06-29	C€
46.014.10*	06-28	C€
46.014.11*	06-28	C€
46.014.12*	06-28	C€
46.014.12D*	06-28	C€

46.014.15*	06-28	C€
46.014.15C*	06-28	C€
46.016.03	08-14	C€
46.016.03*	06-29	C€
46.016.04	08-14	C€
46.016.04*	06-29	C€
46.016.07	08-14	C€
46.016.07*	06-29	C€
46.016.09	08-14	C€
46.016.09*	06-29	C€
46.035.00	06-30	C€
46.035.00	08-14	C€
46.035.05	06-30	C€
46.035.05	08-12	C€
46.035.05	08-14	C€
46.035.20	08-03	C€
46.036.11	07-02	C€
46.036.21	07-02	C€
46.040.00	08-02	C€
46.040.01	08-03	€*
46.040.02	08-03	€*
46.040.03	08-02	C€
46.040.04	08-02	C€
46.040.07	08-03	C€
46.040.08	08-03	C€
46.040.09	08-03	C€
46.040.15	07-38	C€
46.040.30	08-03	C€
46.050.11	06-32	C€
46.050.11SC	06-32	C€
46.050.11TC	06-32	C€
46.050.11TISC	06-32	C€
46.051.11	06-32	C€
46.051.11SC	06-32	€*
46.051.11TC	06-32	C€
46.051.11TISC	06-31	C€
46.051.11TISC	06-32	C€
46.057.11	06-32	C€
46.057.11SC	06-32	C€
46.057.11TISC	06-31	C€
46.057.11TISC	06-32	C€
46.069.11	06-33	C€
46.077.16	06-34	€*
46.077.16SC	06-34	€*
46.077.16TC	06-34	C€
46.077.16TISC	06-34	C€
46.081.16	06-32	C€
46.081.16SC	06-32	C€
46.081.16SC	07-04	C€
46.081.16SC	08-13	C€
46.081.16TISC	06-31	C€
46.081.16TISC	06-32	C€



46.111.16	06-34	C€
46.111.16SC	06-34	C€
46.121.17	06-35	C€
46.123.17	06-35	C€
46.123.17SC	06-35	C€
46.123.17TC	06-35	C€
46.123.17TISC	06-35	C€
46.200.13	06-33	C€
46.200.13SC	06-33	C€
46.200.13TC	06-33	C€
46.200.13TISC	06-33	C€
46.201.13	06-33	C€
46.201.13SC	06-33	C€
46.201.13TC	06-33	C€
46.201.13TISC	06-31	C€
46.201.13TISC	06-33	C€
46.207.13	06-33	C€
46.207.13SC	06-33	C€
46.221.12	06-35	C€
46.319.17	08-05	C€
46.319.17	08-15	C€
46.319.17N	08-06	C€
46.319.17TISC	08-05	C€
46.321.16	08-05	C€
46.321.16TISC	08-05	C€
46.402.13	06-36	C€
46.402.14	06-36	C€
46.404.13	06-36	C€
46.404.14	06-36	C€
46.431.14	06-34	C€
46.431.14SC	06-34	C€
46.431.14TISC	06-31	C€
46.431.14TISC	06-34	C€
46.516.14	06-35	C€
46.517.14	06-35	C€
46.640.09	06-35	C€
46.640.13	06-35	C€
46.674.10	06-36	C€
46.675.10	06-36	C€
46.685.12	06-36	C€
46.685.12	06-43	C€
46.885.12TC	06-36	C€
46.885.12TC	06-43	C€
47.099.08	07-10	C€
47.099.10	07-10	C€
47.099.20	07-10	C€
47.099.25	07-19	C€
47.099.26	07-19	C€
47.099.31	07-10	C€
47.099.32	07-10	C€
47.099.33	07-10	C€
47.099.34	07-10	C€

47.099.50	07-08	CE
47.500.31	07-18	CE
47.501.03	10-10	CE
47.502.10	07-07	C€
47.503.10	10-11	C€
47.503.20	10-11	C€
47.503.50	10-11	C€
47.503.53	10-11	C€
47.520.00	07-33	C€
47.520.00		C€
47.520.01	07-33	C€*
47.520.02	07-33	C€
47.520.03	07-33	C€
47.520.23	07-19	C€
47.520.25		CE
	07-19	C€
47.525.50 47.525.50	05-03	
47.525.50 47.525.50	05-05	(E
47.525.50	09-09	CE
47.525.55	05-03	CE
47.525.55	05-05	€
47.525.55	09-09	(E
47.530.00	07-23	CE*
47.560.03	07-33	€*
47.560.05	07-33	C€
47.750.03	07-12	C€
47.750.04	07-12	C€
47.750.13	07-12	<b>(€</b>
47.750.14	07-12	<b>(€</b>
47.803.02	09-09	€*
47.830.00	09-08	C€
47.830.00	09-09	C€
47.830.01	09-09	C€
47.832.01	09-09	<b>(€</b>
47.832.02	09-09	CE
47.832.04	09-09	CE
47.832.05	09-09	C€
47.832.06	09-09	CE
47.832.07	09-09	C€
47.832.08	09-09	(€
47.832.09	09-09	€
47.833.01	09-09	CE
47.833.02	09-09	(€
47.833.03	09-09	(€
47.833.04	09-09	C€
47.833.05	09-09	(€
47.833.06	09-09	C€
47.833.07	09-09	C€
47.833.08	09-09	C€
47.833.09	09-09	CE
47.847.12	07-33	CE
47.937.00	07-06	CE
47.937.01	07-07	C€

47.937.05	07-07	C€
47.937.10	07-07	C€
47.937.11	07-07	C€
47.937.12	07-07	C€
47.937.13	07-07	C€
47.937.14	07-07	C€
47.940.00	07-13	C€
47.940.01	07-13	C€
47.942.20	07-13	C€
47.942.28	07-13	C€
47.942.33	07-13	C€
47.942.38	07-13	C€
47.942.43	07-13	C€
47.943.20	07-13	C€
47.943.28	07-13	C€
47.943.33	07-13	C€
47.943.38	07-13	CE
47.943.43	07-13	CE
47.944.20	07-13	CE
47.944.28	07-13	CE
47.944.33	07-13	CE
47.944.38	07-13	C€
47.944.43	07-13	C€
47.945.20	07-13	C€
47.945.28	07-13	C€
47.945.33	07-13	C€
47.945.38	07-13	C€
47.945.43	07-13	C€
47.949.11	07-09	C€
47.949.11	07-11	C€
47.949.12	07-09	C€
47.949.12	07-11	C€
47.949.13	07-09	C€
47.949.13	07-11	C€
47.949.21	07-11	C€
47.949.22	07-11	C€
47.949.23	07-11	C€
47.949.95	07-11	C€
47.950.02	10-10	C€
47.950.03	07-07	C€
47.954.01	07-22	C€
47.954.35	07-22	C€
47.954.55	07-22	C€
47.955.00	07-21	C€
47.955.10	07-21	C€
47.957.00	07-05	C€
47.957.01	07-05	C€
47.957.10	07-05	C€
47.957.15	07-05	C€
47.958.00	07-21	C€
47.958.01	07-21	C€
47.958.03	07-21	C€



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47.958.04	07-21	C€
47.961.00	07-12	C€
47.961.20	07-12	C€
47.961.20	07-12	C€
47.961.28	07-12	C€
47.961.33	07-12	C€
47.961.38	07-12	C€
47.961.43	07-12	C€
47.962.20	07-12	C€
47.962.28	07-12	C€
47.962.33	07-12	CE
47.962.38	07-12	CE
47.962.43	07-12	CE
47.962.50	07-12	C€
47.963.50	07-12	C€
47.963.60	07-12	C€
47.966.00	07-12	C€
47.990.00	07-33	C€
47.990.06	07-16	C€
47.990.08		
	07-16	€
47.990.10	07-16	€
47.990.20	07-16	CE
47.990.30	07-16	CE
47.990.40	07-16	C€
47.990.50	07-16	CE
47.990.60	07-16	C€
47.990.70	07-16	C€
47.991.00	07-17	C€
47.991.10	07-17	C€
47.991.20	07-17	C€
47.991.30	07-17	C€
47.991.40	07-17	C€
47.991.50	07-17	C€
47.991.60	07-17	C€
47.991.70	07-17	C€
47.991.80	07-17	C€
48.286.08	07-37	C€
48.666.20	07-37	C€
50.226.16	06-02	C€
50.229.16	06-02	C€
53.034.19	06-06	C€
53.034.25	06-06	C€
60.150.24	06-11	C€
60.151.24	06-11	C€
85.070.01	07-20	C€
85.070.05	07-20	C€
85.070.05	07-20	C€
85.140.00	10-08	C€
85.142.10	10-08	C€
85.142.20	10-08	C€
85.145.00	10-08	C€
85.150.00	10-08	C€
	10 00	

85.180.00	07-13	C€
85.180.00	08-15	C€
85.180.00	10-02	C€
85.180.03	10-02	C€
85.180.04	10-02	C€
85.180.05	10-02	C€
85.180.10	10-02	C€
85.181.00	10-02	C€
85.181.03	10-03	C€
85.181.04	05-47	C€
85.181.04	10-03	C€
85.181.05	05-47	C€
85.181.05	10-03	C€
85.181.09	10-05	C€
85.182.00	10-02	C€
85.182.03	10-05	C€
85.182.04	10-05	C€
85.182.05	10-05	C€
85.182.08	10-05	C€
85.182.50	07-07	C€
85.183.40	10-08	C€
85.183.41	10-08	C€
85.183.42	10-08	C€
85.183.43	10-08	C€
85.183.44	10-08	C€
85.183.45	10-08	C€
85.183.46	10-08	C€
85.183.47	10-08	C€
85.183.48	10-08	C€
85.183.49	10-08	C€
85.190.10	07-31	C€
85.190.10	10-11	C€
85.192.50	09-09	C€
85.192.50	10-03	C€
85.194.00	10-03	C€
85.194.10	05-04	C€
85.194.50	10-03	C€
85.195.00	05-04	C€
85.195.00	05-47	C€
85.195.00	10-03	C€
85.251.00	10-09	C€
85.251.03	07-27	C€
85.251.03	07-31	C€
85.251.03	10-09	C€
85.251.04	07-19	C€
85.251.04	07-29	C€
85.251.04	07-33	C€
85.251.04	10-09	C€
85.251.04	10-11	C€
85.251.14	07-29	C€
85.252.140	06-41	C€
85.252.25	08-12	C€

85.252.25	10-09	C€
85.255.02	07-07	C€
85.255.02	07-33	C€
85.256.00	07-33	CE
85.264.350	06-41	C€
85.312.00	10-07	CE
85.312.01	10-07	CE
85.312.02	10-07	CE
85.312.03	10-07	C€
85.312.04	10-07	CE
85.312.05	10-07	CE
85.312.06	10-07	CE
85.312.07	10-07	CE
85.312.08	10-07	CE
85.312.09	10-07	CE
85.327.00	10-07	CE
85.327.10	10-07	C€
85.327.15	10-07	CE
85.327.20	10-07	CE
85.327.30	10-07	CE
85.327.50	10-07	CE
85.327.60	10-07	CE
85.327.70	10-07	CE
85.540.60	10-10	CE
85.540.65	10-10	CE
85.703.00	10-08	C€
85.903.01	10-08	CE
85.903.03	10-08	C€
85.903.04	10-08	C€



# Terms of Delivery and Payment

### **Helmut Zepf Medizintechnik GmbH**

#### 1. Offers and order acceptance

Our offers are always subject to confirmation and without obligation. Telephone and verbal agreements and arrangements with our agents shall become legally valid only after they have been confirmed by us in writing. Deviations in the orders of the buyers relative to our terms of delivery and payment shall not be binding for us, if we have not declared our approval in writing. The subsequent correction of potential errors in offers and invoices shall be permitted for us explicitly and in every case.

#### 2. Delivery

All our data on delivery times shall be approximate only and non-binding.

#### 3. Calculation

The prices agreed upon are net prices plus the respective legally applicable value-added tax.

### 4. Warranty

Within a period of one year we shall grant warranty for defects, which are caused by manufacturing or material faults. Potential defects shall have to be indicated to the supplier in writing immediately, at the latest, however, within eight days after receipt of the delivery. In case of justified notification of defects, the supplier shall be obligated to rework or replace as chosen. Any exceeding warranty claims, in particular for damage which has not been caused to the supplied goods themselves shall be ruled out, provided no intent or gross negligence can be substantiated. Our obligation of warranty shall not apply, if the defect or modification of the goods supplied is caused by incorrect intervention of the ordering or third parties. Moreover the warranty obligation shall not apply in case of incorrect handling or excessive wear of the goods by the ordering or third parties.

### 5. Packaging

If the order does not define the packaging, we shall choose the packaging at our discretion.

### 6. Delivery / shipment

The delivery is made ex works. The goods shall be transported to the place of destination always at the costs and risk of the buyer, no matter by which route and which means of transportation is chosen. The road tolls, provided they are not paid by us in case of freight-paid fob or cif deliveries, shall be borne by the buyer. Neither do we assume any obligation for delivery in time nor for the full utilization of loading capacity of the means of transportation. Moreover, the buyer shall bear the costs of the transport insurance.

### 7. Payment

Our invoices shall be due for payment without deduction within thirty days after invoicing. In case of payment within eight days we grant a discount of two per cent. Repairs and interest shall be payable immediately and without deduction. Cheques and bills of exchange shall be accepted only in lieu of payment, the latter only after previous arrangement. Costs for bills of exchange and discount charges shall be borne by the ordering party.

Payments shall be considered made as from the day, at which the supplier can avail himself of the invoiced amount in cash without any loss. In case of default in payment of the ordering parts we shall be permitted to charge default interest of 5 per cent above the respective basic interest rate of the European Central Bank as from the occurrence of default, and to declare due any amounts potentially deferred. Before complete payment of all invoices due including default interest, the supplier shall not be obligated to any further deliveries from a current contract. A complaint, even when justified, shall not permit the buyer to delay payment or to change the terms of payment.

#### 8. Retention of title

Until complete redemption of all obligations from the business relationship, also of others and future businesses of the buyer with us, the goods supplied shall remain our property. For the duration of the retention of title of the seller, the buyer obligates himself to handle the goods correctly and with care. Within the framework of his normal standard business operation, the buyer may sell and process the goods. The claims of the buyer from the sales of the goods subject to retention of title shall be assigned to us now already until our claims from good delivery are paid off completely, irrespective of whether the goods subject to retention of title have been sold without or after processing or whether they have been sold to one or several buyers. The assigned claims serve as our security, however only to the value of the respectively sold goods subject to retention of title. The buyer is entitled to sell the goods subject to retention of title only in keeping with the agreement hereinbefore on the assignment of the purchase price claim. In case of seizure of the goods or the transfer of the purchase price claim to a third party in their place, the buyer is obligated to inform us immediately. We obligate ourselves to return or to transfer back the securities assigned to us at our discretion in keeping with the conditions mentioned hereinbefore, provided the value exceeds the claims to be secured by 20 per cent.

### 9. Place of performance and venue

The place of performance and venue shall be D-78532 Tuttlingen in Germany for all rights and obligations arising from the business relationship with us. The law of the Federal Republic of Germany shall apply exclusively for all legal matters under exclusion of the conflict of laws and the agreement of the United Nations on Contracts of the International Sale of Goods (CISG).

### 10. Data storage

We are permitted to save and process personal data of the ordering party.

#### 11. Final clauses

The potential ineffectiveness of individual stipulations of these terms of business shall not affect the validity of the other stipulations.







