

Ben**ex**®-Extraction System

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

Pat.No. CH 696 458

Pursuing logically the quest of gentle extraction,
HELMUT ZEPF Medizintechnik has developed a new, patented extraction system in close collaboration with Benno Syfrig Dr. med., med. dent from Switzerland.

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 Benex®-Extractor represents an innovative system allowing gentle, secure and easy extraction of the root of the tooth. Whereas with conventional instruments, the task is more tedious.

A further advantage of the new Benex®-Extractor is to be found in the field of germectomy - germs of teeth are also removed in a gentle and timesaving manner.

For more detailed information, application samples and the Benex® User Forum refer to:

http://www.zepf-dental.com



easy. protecting. save. Benex® Application Cases.

Benex® Application Cases

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In pictures [1] to [4], the situation of plugloss / loss of crown is shown. This is the most frequent case for a Ben**ex**® extraction. Even if the root could be grabbed with forceps, the danger of a root fracture is very high. With the Benex® Extractor, the risk of damaging neighbouring bone or soft tissue structures is virtually non-existent.

In pictures [5] to [8], we show the extraction of a two-root premolar. Both roots were separated before the extraction.

Germectomy [9] - Following removal of milk teeth, an access from crestal to the tooth germ is created. The tooth germ "swim" in the follicle and is very difficult to seize. Till now, the tooth germ has to be separated into small pieces and subsequently removed, using forceps or tweezers, amongst others. If unsuccessful, a massive osteotomy will be necessary. The Benex® screws can be easily fixed into the tooth germ and with minimal force, the tooth germ can be luxated. Bigger tooth germs can be separated and "fished out" with the Benex® screw.









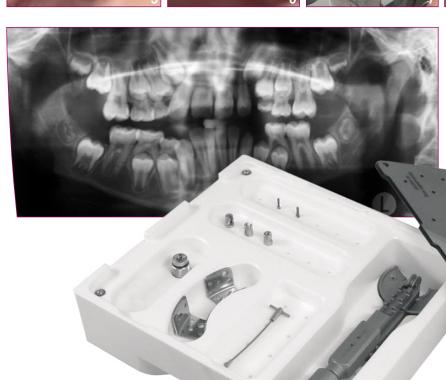








12.301.00 Benex®-Extraction System





application. benefit. result. Application Benex® Extractor.



1. Anaesthesia.

Cutting periodontal fibres (Sharpey fibres) in the sulcus by using the ZEPF Periotome Xiod.



2. Strong, large roots must be loosened / luxated by axial movements within 30 seconds, using a slim elevator / twister (Nod from 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.



4. According to circumstances, the short or long extraction screw with screwing support 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 traction rope 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 during 30 seconds by applying a submaximum traction.



Ben**ex**® Quadrant support

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

In order to guarantee an optimized, vertical power-transmission a right-angled plane have to be available in order to apply the Benex® Extractor.

With the new developed Quadrant-support this plane could be adjusted and / or will improve a bad supporting-surface.

This action will be essential during the Benex®-Extraction in the lower - jaw and in the upper-jaw near the palatial roots



- 1. Fill the Quadrant support with a fast setting plasticine and model a gap in the buccal hole region.
- 2. The Quadrant support have to be positioned with the opening in the region of the extracting root, right-angled to the root-axis.
- 3. Remove the Quadrant support when the setting begins. The complete setting happens extraoral.
- 4. Root-luxation. Afterwards insertion of the Benex-screw and repositioning of the Quadrant support and the Benex® Extractor.

Benex®

	Article indication	Order quantity
MEVA	12.301.00 - Benex® Extraction System consisting of: Benex® Extractor, Instrument-/Sterilizationblock with cover, Pullrope, Driver guide, Screw (3x), Quadrant support, Drill 1,3 mm, Drill 1,8 mm	· []
1	12.300.01 - Instrument-/Sterilizationblock with cover (labeled)	[]
CHILL STATE OF THE	12.300.10 - Benex® Extractor	[]
	12.300.15 - Replacement Support Disc, 8 mm (PTFE)	[]
	12.300.20 - Pullrope, 48 mm	[]
	12.300.30 - Diamond coated Drill for Screw Ø 1,6 mm .60 & .70 12.300.35 - Diamond coated Drill for Screw Ø 1,8 mm	[] []
	12.300.65 12.300.40 - Driver guide, short 12.300.50 - Driver guide, long	[] []
AND	12.300.60 - Screw Ø 1,6 mm, short 10 mm 12.300.70 - Screw Ø 1,6 mm , long 16 mm	[] []
1	12.300.65 - Screw, short 10 mm, Ø 1,8 mm	[]
META	12.300.80 - Quadrant support for Benex® to brigdeover bigger gaps and for the universal molding	[]
	26.183.00 - Desmotome for cutting the Desmodontal Fibres, Titanium-Handle, exchangeable tips	I I



Customer Number				

Order by fax to +49 (0) 7464 / 98 88 88

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