



Dental Excellence
made by

HAHNENKRATT

Dental Medtech for generations

It began more than 90 years ago.

The company E. HAHNENKRATT GmbH was founded in 1932 by master mechanic Emil Hahnenkratt in Pforzheim.

The passion for technology has been passed down through all generations, even to the great-grandchild, and is now reflected in the consistent use of high-tech in all areas of the company.



Ann-Katrin and Hendrik Schepperheyn

1932

Emil
Hahnenkratt

2024



Made in Königsbach-Stein

Quality and trust for over 90 years –
100% made in Germany

Since 1932, dentists worldwide in more than 120 countries have been successfully using HAHNENKRATT dental instruments, demonstrating their trust in our products.

A spirit of innovation, the use of high-tech in development and production, as well as the team spirit of our employees, form the foundation for the consistently high quality of our dental products. In-house development and special machine construction are at the heart of our four-generation-long success story.



Products

BLACKline

- ☑ 1.01 BLACKline Mouth Mirrors
- ☑ 1.02 BLACKline MICRO Mirrors
- ☑ 1.03 BLACKline Explorers

Mouth Mirrors

- ☑ 2.00 Quality features of the Mirror
- ☑ 2.01 RELAX FS
- ☑ 3.01 ULTRA FS
- ☑ 3.02 MEGA FS Rhodium
- ☑ 3.03 MEGA FS TiCr
- ☑ 4.01 ULTRAvision FS
- ☑ 4.02 TOPvision FS Rhodium
- ☑ 4.03 TOPvision FS TiCr
- ☑ 4.04 SEplus
- ☑ 4.05 Economy

- ☑ 5.01 Laryngeal Mirrors

MICRO Mouth Mirrors

- ☑ 6.01 MEGAmicro FS Rhodium
ULTRAmicro FS

Handles for Mouth Mirrors

- ☑ 7.01 ERGOtouch
- ☑ 7.02 ERGOform, PEEK + stainless steel
- ☑ 7.03 ERGOform 134°
- ☑ 7.04 Handles, stainless steel in various designs

Photography Mirrors

- ☑ 8.01 Photography Mirrors

Explorers

- ☑ 9.01 ERGOtouch
- ☑ 9.02 ERGOform

Periodontometer

- ☑ 10.01 PSI Periodontometer

Root Post Systems

- ☑ 20.00 Overview
- ☑ 20.01 EXATEC, Titanium
- ☑ 20.02 EXATEC, HT Glassfiber
- ☑ 21.01 CYTEC, HT Glassfiber
- ☑ 21.02 CYTECpro, HT Glassfiber
- ☑ 22.01 CONTEC, HT Glassfiber
- ☑ 22.02 CONTECpro, HT Glassfiber

IDS 2025
NEWS

IDS 2025
NEWS

Matrixes

- ☑ 30.01 Matrixes
- ☑ 30.02 Matrix Retainers

Riveting Wheels

- ☑ 40.01 Riveting Wheels

BLACKline

The BLACKline instruments receive with a DLC (Diamondlike carbon) coating a high-end finish.

The matt finish eliminates disturbing reflections. This is an important aspect for working under the microscope, which is becoming increasingly important in endodontics.

The BLACKline increases working comfort while adding ergonomic elements and offers superior advantages for every purpose.

BLACKline

ULTRA FS

MEGA FS Rhodium

DLC Coating for High-End Finish

Eye-friendly work

under bright light and magnification due to the deep black, matt surface.

Precisely sharp reflection

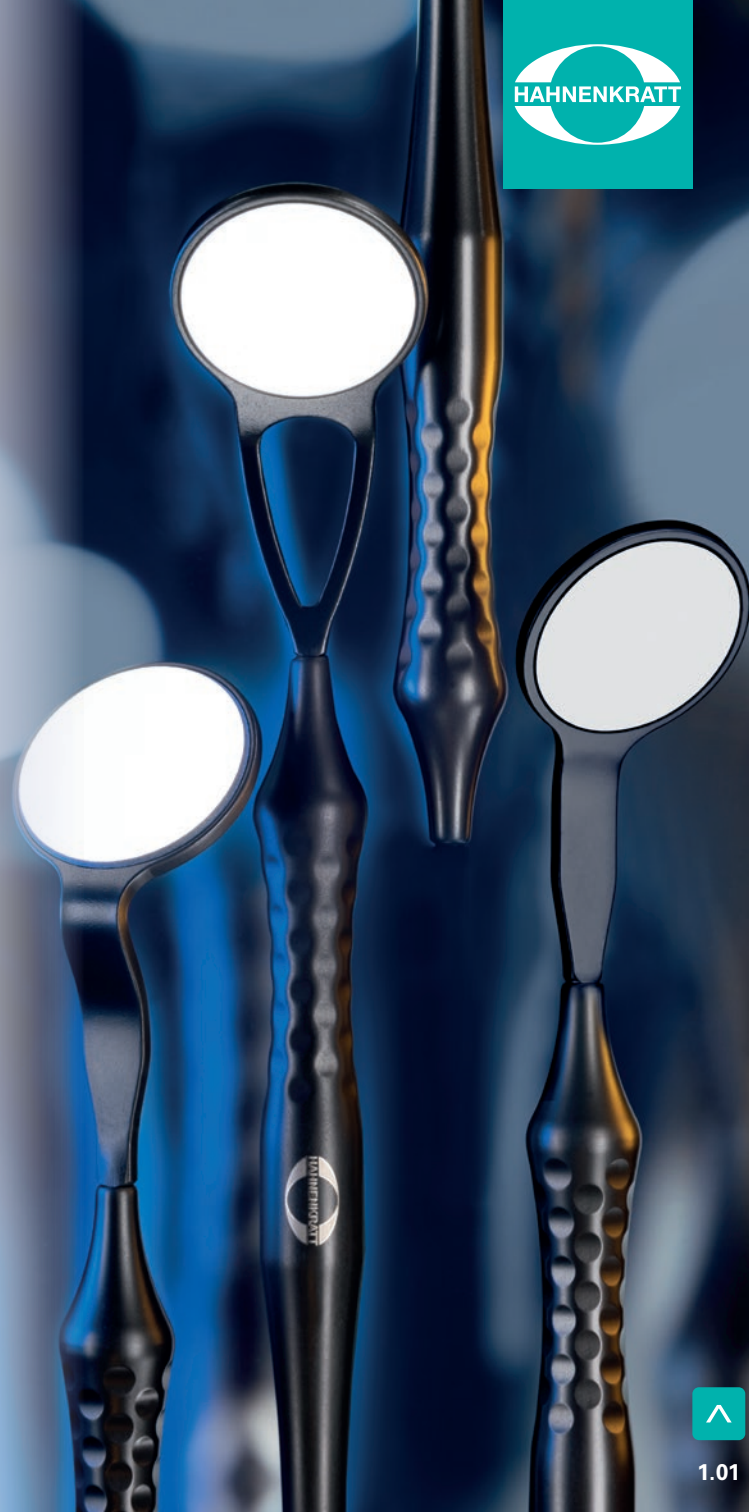
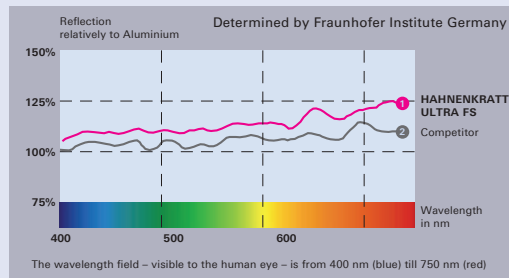
thanks to front surface coating.

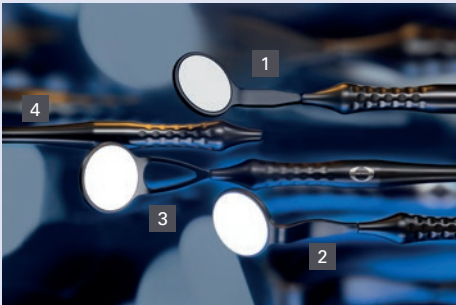
Optimized cheek retraction

through wide, contoured stem bases.

Highest reflection


for brilliant brightness, especially with ULTRA FS.





BLACKline ULTRA FS / 3-Pack.			SS-thread	CS-thread
BLACK ULTRA	4–5 plane	Ø 22–24 mm	B6160–B6161	B6165–B6166
BLACK ULTRAduo	4–5 plane	Ø 22–24 mm	B6640–B6641	B6645–B6646
BLACK ULTRAretract, bifurcated stem	4–5 plane	Ø 22–24 mm	B6690–B6691	B6695–B6696

BLACKline MEGA FS Rhodium / 3-Pack.			SS-thread	CS-thread
BLACK MEGA	4–5 plane	Ø 22–24 mm	B6060–B6061	B6070–B6071
BLACK MEGAduo	4–5 plane	Ø 22–24 mm	B6100 –B6101	B6170–B6171
BLACK MEGAretract, bifurcated stem	4–5 plane	Ø 22–24 mm	B6680–B6681	B6685–B6686

BLACKline ERGOtouch Handles / each		SS-thread	CS-thread [*]
4		B442	B443

^{*}Due to a larger thread-diameter, the CS-thread fits only on handles with CS-thread.
CS is mainly used in the USA, Canada, South-Korea and Spain.



BLACKline

ULTRAmicro + ULTRAmicro flex

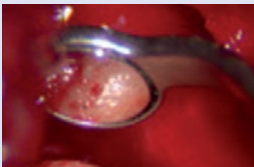
MEGAmicro + MEGAmicro flex

The micro mirrors are excellent for microsurgery, featuring a thickness of just 0.6 mm.

MICROflex comes with a flexible handle for individually adjusted mirror positioning.

The front surface coating results in an exceptionally sharp reflection, which is essential in microsurgery.

The ultra-bright HD-quality mirror offers a brilliantly color-true image. This combination makes the smallest details visible and allows for optimized work.

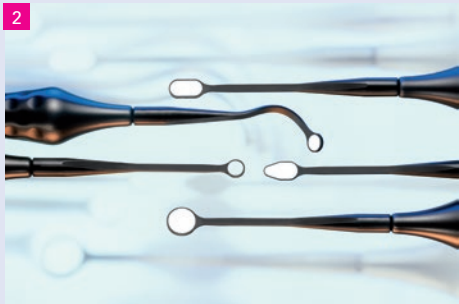


The BLACKline-finish prevents disturbing reflections for the eyes.






ULTRAmicro
MEGAmicro



ULTRAmicro flex
MEGAmicro flex

INFO: All MICRO mirrors have an SS thread and are compatible with all handles that have a SS thread.

BLACKline	1	1	2	2
each	ULTRAmicro	MEGAmicro	ULTRAmicro flex	MEGAmicro flex
Ø 3 mm	B6181	B6200	B5181	B5200
Ø 5 mm	B6182	B6220	B5182	B5220
oval 3x6 mm	B6183	B6232	B5183	B5232
drop-shaped 3x6 mm	B6184	B6240	B5184	B5240

BLACKline ERGOtouch handles/ each	SS-thread
	B442



BLACKline

Handles + Explorers

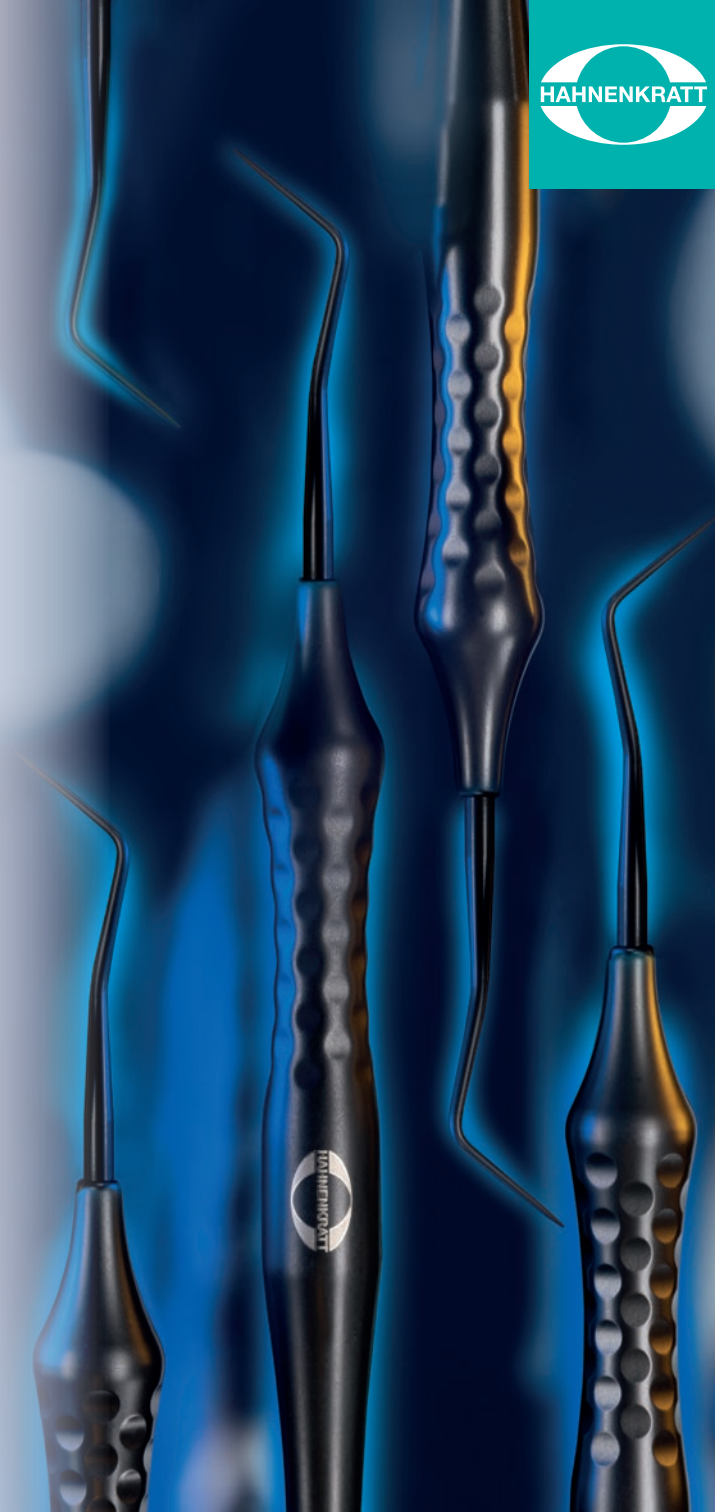
The handles with DLC coating are hollow, making them perfectly balanced and lightweight in the hand. The textured design and recess provide a secure grip and pleasant tactile experience. The deep black, matt surface eliminates distracting light reflections.

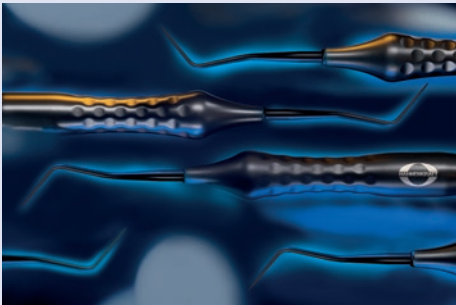
The explorer parts are made out of surgical steel according to EN ISO 7492 and thus ensure a high bending strength and flexibility.

The handles are also available for mouth mirrors.

The Explorers are permanently fixed.

Autoclavable up to 134°C





BLACKline ERGOtouch Explorers / each	REF				
	Form A 010 Fig. 23	Form C 030 Fig. 8	Form D 040 Fig. 9	Form F 060 Fig. 6	Form G 070 Fig. 17
	B600A	B600C	B600D	B600F	B600G

The Explorers are permanently fixed.

BLACKline ERGOtouch Handles / each	SS-thread	CS-thread
	B442	B443

*Due to a larger thread-diameter, the CS-thread fits only on handles with CS-thread.
CS is mainly used in the USA, Canada, South-Korea and Spain.
















Mouth Mirrors

Quality features of the Mirror



Years of
Passion for Dental
Excellence



Product	Design	Catalogue	Front Surface Mirror			Rear Surface Mirror	Features			
			ULTRA	Rhodium	Titanium / Chrome	Silver	Sharpness	Brightness	Acid Resistance	Anti-Stick-Effect
ULTRA FS		3.01 	●				● ● ●	● ● ●	● ● ●	●
ULTRAvision FS		4.01 	●				● ● ●	● ● ●	● ● ●	●
RELAX ULTRA FS		2.01 	●				● ● ●	● ● ●	● ● ●	●
Photography Mirrors ULTRA FS		8.01 	●				● ● ●	● ● ●	● ● ●	●
MEGA FS Rhodium		3.02 		●			● ● ●	● ●	● ● ●	● ● ●
TOPvision FS Rhodium		4.02 		●			● ● ●	● ●	● ● ●	● ● ●
RELAX FS Rhodium		2.01 		●			● ● ●	● ●	● ● ●	● ● ●
Photography Mirrors FS Rhodium		8.01 		●			● ● ●	● ●	● ● ●	● ● ●
MEGA FS TiCr		3.03 			●		● ● ●	●	● ● ●	● ●
TOPvision FS TiCr		4.03 			●		● ● ●	●	● ● ●	● ●
SEplus RS Silver		4.04 				●	●	● ● ●	●	●
Economy RS Silver		4.05 				●	●	● ●	●	●



RELAX

RELAX – created with a perfect blend of design and ergonomics.

Comfortably light weight

for relaxed dental operations

Comfortable to hold

due to the ergonomic design with grip recess

Keeping quality

colour stable, resistant against acids as well as against plaque-indicators

Comfortable for patients

due to the smooth finish

Hygienic

due to the plane transition from mirror surface to mirror casing without any gap

No distracting reflections

due to the satin-finished surfaces

The instrument is autoclavable, acid-resistant and suitable for thermal disinfectors.





The splitted mirror shows the crystal clear ultra-bright reflection of the ULTRA FS compared to Rhodium.

Colours	Size	Ø in mm	Content	FS Rhodium REF	FS Ultra REF
all colours	4	22	10 Asstd.	7 100	7 300
white	4	22	10 Pack	7 101	7 301
pastel yellow	4	22	10 Pack	7 102	7 302
pastel blue	4	22	10 Pack	7 103	7 303
pastel mint	4	22	10 Pack	7 104	7 304
pastel lavender	4	22	10 Pack	7 105	7 305
anthracite	4	22	10 Pack	7 106	7 306
pink	4	22	10 Pack	7 107	7 307
all colours	5	24	10 Asstd.	7 110	7 310
white	5	24	10 Pack	7 111	7 311
pastel yellow	5	24	10 Pack	7 112	7 312
pastel blue	5	24	10 Pack	7 113	7 313
pastel mint	5	24	10 Pack	7 114	7 314
pastel lavender	5	24	10 Pack	7 115	7 315
anthracite	5	24	10 Pack	7 116	7 316
pink	5	24	10 Pack	7 117	7 317



ULTRA FS

ultra bright

ULTRA FS – the brightest and sharpest mirror worldwide.

Highest reflection
with crystal clear brightness

Superior colour accuracy

Images of exact sharpness and contrast
up to the smallest detail, with out any distortion.
The combination of bright and brilliant natural
colours guarantees high sight comfort, gentle
to the eye and good for fatigue-proof working.

Optimized comfortable cheek retraction
through wide, contoured stem bases

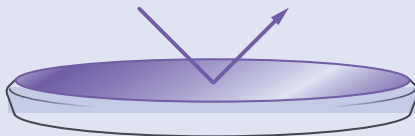


ULTRA FS

ultra bright

The unique structure of the reflective layers – consisting of 22 layer packages – offers an unmatched bright reflection with crystal-clear purity through the optimized refraction of light, which is not found in other mirrors.

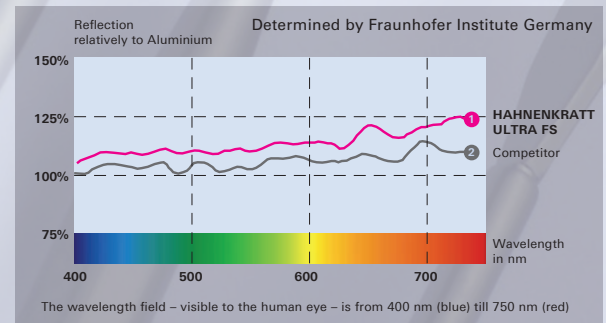
only one reflection
► exact sharp image



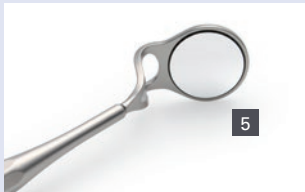
Front Surface Mirror



The splitted mirror shows the crystal clear, ultra-bright reflection of the ULTRA FS compared to Rhodium.



ULTRA FS



				SS-thread REF	CS-thread [*] REF
1	ULTRA FS	4 plane	box of 6	6 160	6 165
	ULTRA FS	5 plane	box of 6	6 161	6 166
2	ULTRAduo FS, double sided	4 plane	box of 6	6 640	6 645
	ULTRAduo FS, double sided	5 plane	box of 6	6 641	6 646
3	ULTRAretract FS	4 plane	box of 6	6 670	6 675
	ULTRAretract FS	5 plane	box of 6	6 671	6 676
4	ULTRAretract FS, bifurcated stem	4 plane	box of 6	6 690	6 695
	ULTRAretract FS, bifurcated stem	5 plane	box of 6	6 691	6 696
5	ULTRAretract FS, bifurcated stem stem double 45°	4 plane	each	6 650	

^{*}Due to a larger thread-diameter, the CS-thread fits only on handles with CS-thread.
CS is mainly used in the USA, Canada, South-Korea and Spain.



MEGA FS Rhodium

Form follows function –
it's ergonomically designed

More comfortable cheek retraction
due to the flat, broad-shaped stem.

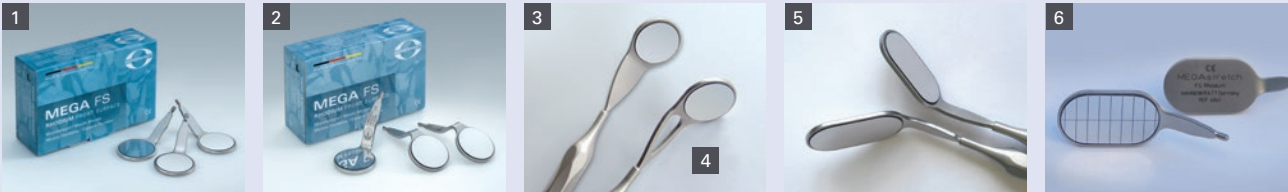
No disturbing reflection
by satin-finished stainless steel surface.

Exact sharpness
by Front Surface mirror coating

Easy cleaning
due to the anti-stick effect of the special
HAHNENKRATT front surface coating.



MEGA FS Rhodium



	MEGA FS Rhodium				SS-thread REF	CS-thread [*] REF
1	MEGA	4 plane	Ø 22 mm	box of 12	6 060	6 070
	MEGA	5 plane	Ø 24 mm	box of 12	6 061	6 071
2	MEGAduo, double sided	4 plane	Ø 22 mm	box of 6	6 100	6 170
	MEGAduo, double sided	5 plane	Ø 24 mm	box of 6	6 101	6 171
3	MEGAretract	4 plane	Ø 22 mm	box of 6	6 660	6 665
	MEGAretract	5 plane	Ø 24 mm	box of 6	6 661	6 666
4	MEGAretract, bifurcated stem	4 plane	Ø 22 mm	box of 6	6 680	6 685
	MEGAretract, bifurcated stem	5 plane	Ø 24 mm	box of 6	6 681	6 686
5	MEGAstretch		18x34 mm	each	6 860	
	MEGAstretch		22x38 mm	each	6 861	
6	MEGA Parallelometer		22x37 mm	each	6 900	
	MEGA Wangenabhalter	without mirror	Ø 22 mm	each	6 070 W	
	MEGAabrasiv <small>Saphire-hard glass surface suitable for use with aluminium oxide airbrasive</small>	4 plane	Ø 21 mm	each	6 080	

^{*}Due to a larger thread-diameter, the CS-thread fits only on handles with CS-thread.
CS is mainly used in the USA, Canada, South-Korea and Spain.



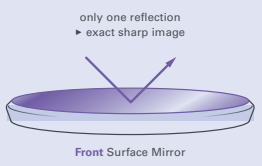
MEGA FS

Front Surface

The MEGA FS is the alternative to the MEGA FS Rhodium.

Highly reflective layers of titanium and chromium create a front surface mirror that reflects in a cooler hue compared to FS Rhodium.

Precisely sharp, high-contrast reflection down to the finest detail.



High sight comfort

gentle to the eye and good for fatigue-proof working.

Easy cleaning

due to the anti-stick effect of the special HAHNENKRATT front surface coating.

Unlimited resistance

against disinfection and sterilisation, even against acid containing refresh liquids.



MEGA FS



MEGA FS / box of 12		SS-thread	CS-thread
size	Ø in mm	plane	plane
		REF	
4	22	6 560	6 565
5	24	6 561	6 566

*Due to a larger thread-diameter, the CS-thread fits only on handles with CS-thread.
CS is mainly used in the USA, Canada, South-Korea and Spain.



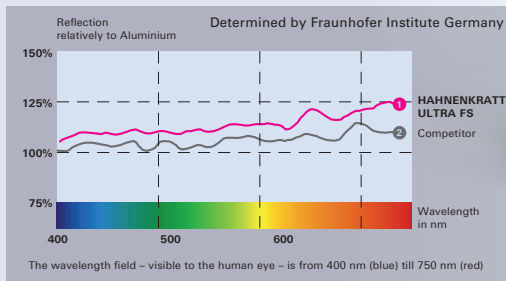
ULTRAvision FS

Front Surface

The unique structure of the reflective layers – consisting of 22 layer packages – offers an unmatched bright reflection with crystal-clear purity through the optimized refraction of light, which is not found in other mirrors.

Highest reflection

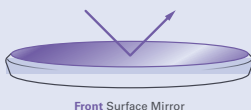
with crystal clear brightness



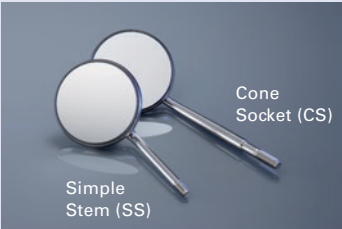
Superior colour accuracy,

Exact sharpness

by Front Surface mirror coating



ULTRAvision FS



ULTRAvision FS			Simple Stem(SS) plane	Cone Socket (CS) plane
Size	Ø in mm		REF	REF
0	14	box of 3	532X0	
3	20	box of 12	533X3	536X3
4	22	box of 12	533X4	536X4
5	24	box of 12	533X5	536X5

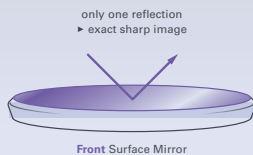
*Due to a larger thread-diameter, the CS-thread fits only on handles with CS-thread.
CS is mainly used in the USA, Canada, South-Korea and Spain.



TOPvision FS Rhodium

Front Surface

Images of exact sharpness and contrast
possible by one single reflection on the front surface.

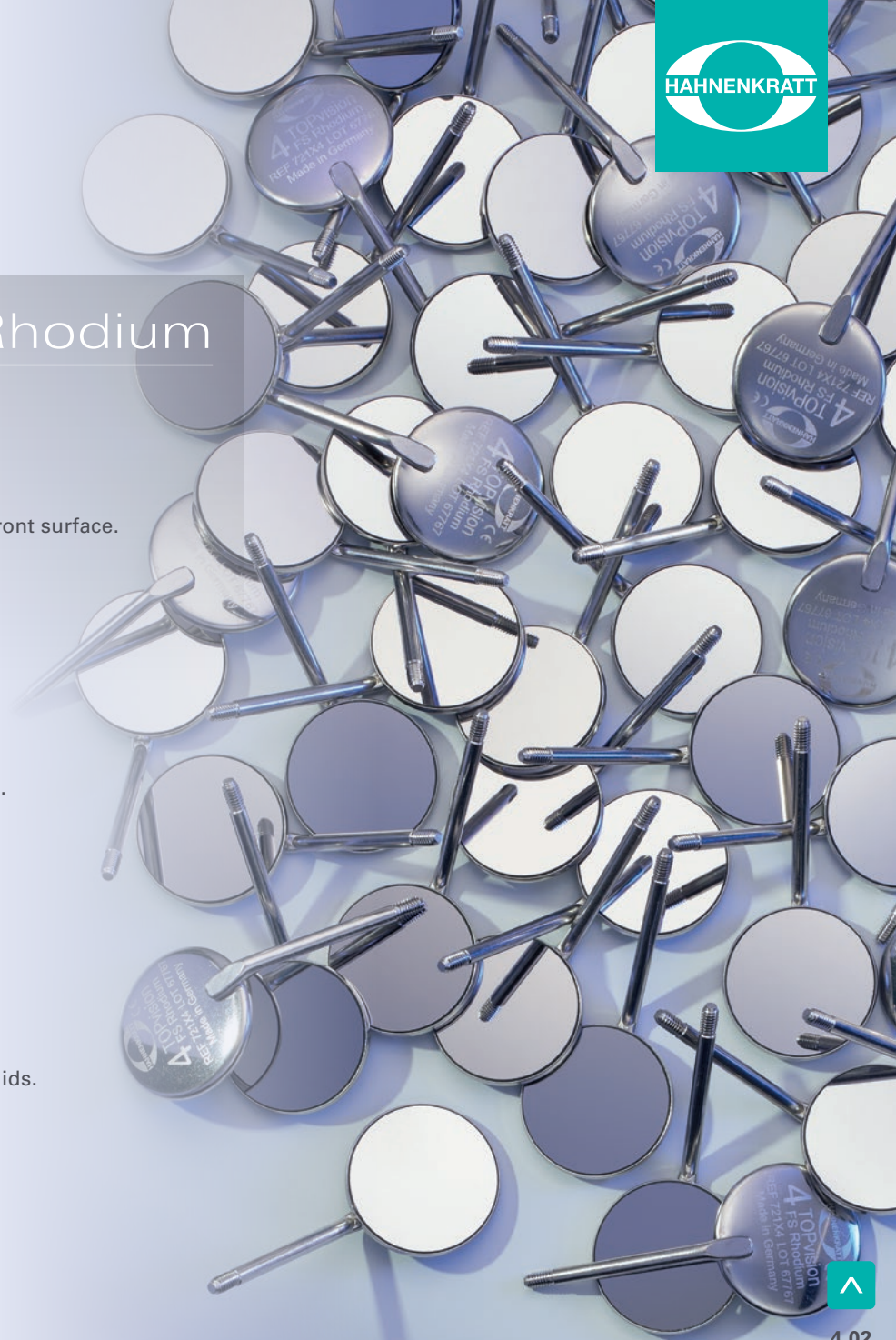


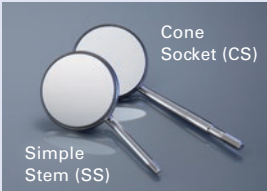
Bright reflection in natural colours
thanks to an optimal reflection spectrum.

High sight comfort
good for fatigue-proof working

Easy cleaning
due to the anti-stick effect of the special
HAHNENKRATT front surface coating

Unlimited chemical resistance
even against acid containing refresh liquids.





MEGA FS Rhodium			plane	magnifying	plane	magnifying
Box of 1 size	Box of 12 size	Ø in mm	Simple Stem (SS)		Cone Socket (CS) [•]	
			REF			
06		6	719X06			
08		8	719X08			
10		10	719X10			
12		12	719X12			
14		14	719X14			
16		16	719X16			
	2	18	720X2		730X2	
	3	20	721X3		731X3	
	4	22	721X4	726X4	731X4	736X4
	5	24	721X5	726X5	731X5	736X5
	6	26	720X6		730X6	
	7	28	720X7		730X7	
	8	30	720X8		730X8	

*Due to a larger thread-diameter, the CS-thread fits only on handles with CS-thread.
CS is mainly used in the USA, Canada, South-Korea and Spain.



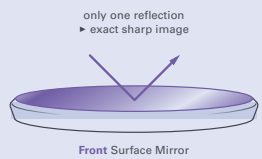
TOPvision FS

Front Surface

The TOPvision FS is the alternative to the TOPvision FS Rhodium.

Highly reflective layers of titanium and chromium create a front surface mirror that reflects in a cooler hue compared to FS Rhodium.

Precisely sharp, high-contrast reflection down to the finest detail.



High sight comfort

gentle to the eye and good for fatigue-proof working.

Easy cleaning

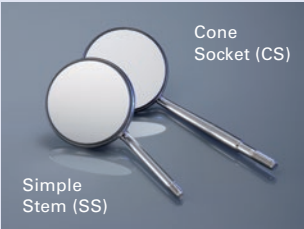
due to the anti-stick effect of the special HAHNENKRATT front surface coating.

Unlimited resistance

against disinfection and sterilisation, even against acid containing refresh liquids.



TOPvision FS



TOPvision FS / Box of 12		Simple Stem (SS)	Cone Socket (CS) *
size	Ø in mm	plane	plane
		REF	
4	22	633X4	636X4
5	24	633X5	636X5

*Due to a larger thread-diameter, the CS-thread fits only on handles with CS-thread.
CS is mainly used in the USA, Canada, South-Korea and Spain.



SEplus

Since decades dentists all over the world rely on the superior quality of our SEplus. Mouth mirrors are daily sterilised and disinfected several times. Considering these extreme conditions, the superior quality is decisive.

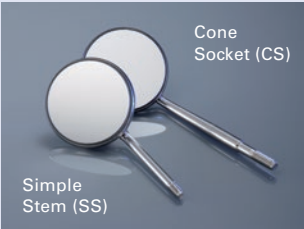
Best reflection and image quality

The SEplus coating with a pure silver layer guarantees exceptionally high reflection. The mirror image impresses with distortion-free, color-natural, and bright image quality, enabling fatigue-free viewing in this combination.

Best resistance against disinfection and sterilisation

The silver coating is protected by a combination of layers, made out of copper and titanium, developed by our company. Additionally the mirror is sealed with a special protective film. This unique combination ensures the extreme long life of SE plus mouth mirrors.





SEplus / Box of 12		plane	magnifying	plane	magnifying
Size	Ø in mm	Simple Stem (SS)		Cone Socket (CS) [•]	
		REF			
3	20	702X3	706X3	711X3	716X3
4	22	702X4	706X4	711X4	716X4
5	24	702X5	706X5	711X5	716X5

* Due to a larger thread-diameter, the CS-thread fits only on handles with CS-thread.
CS is mainly used in the USA, Canada, South-Korea and Spain.



Economy

The economically priced

High image quality

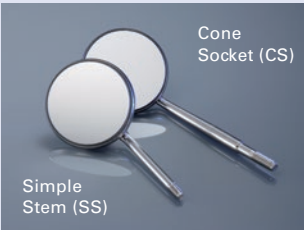
The Economy mouth mirrors have a pure silver coating. The reflection is bright and offers high image quality.

High resistance against disinfection and sterilisation

The silver coating is protected with a copper layer and it's additionally sealed with a special protective film.



Economy



Economy / Box of 12		Simple Stem (SS)		Cone Socket (CS) [*]	
Size	Ø in mm	plane	magnifying	plane	magnifying
		REF			
4	22	770X4	771X4	775X4	776X4
5	24	770X5	771X5	775X5	776X5

^{*}Due to a larger thread-diameter, the CS-thread fits only on handles with CS-thread.
CS is mainly used in the USA, Canada, South-Korea and Spain.

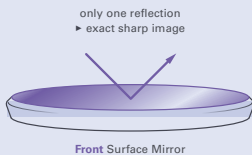


Laryngeal Mirrors

FS Rhodium

Laryngeal FS Rhodium mirrors are coated with Rhodium on the front surface. Rhodium is a precious metal as gold and as a precious metal it is chemical resistant, even against acids.

Images of exact sharpness and contrast
up to the smallest detail, without any distortion.



Bright reflection
with an optimally uniform reflection spectrum.

Highest sight comfort
gentle to the eyes and good for fatigue-proof working.

Easy cleaning
due to the anti-stick effect of the special
HAHNENKRATT front surface coating.

Unlimited resistance
against disinfection and sterilisation, even against
acid containing refresh liquid.



Laryngeal Mirrors FS Rhodium



Laryngeal Mirrors	Ø in mm	without thread REF	with thread REF	Mirror with handle hexagonal REF	Mirror with handle round REF
each	6	H951RX06	H950RX06	H956RX06	H957RX06
	8	H951RX08	H950RX08	H956RX08	H957RX08
	10	H951RX10	H950RX10	H956RX10	H957RX10
	12	H951RX12	H950RX12	H956RX12	H957RX12
	14	H951RX14	H950RX14	H956RX14	H957RX14
	16	H751RX16	H750RX16	H756RX16	H757RX16
	18	H751RX18	H750RX18	H756RX18	H757RX18
	20	H751RX20	H750RX20	H756RX20	H757RX20
	22	H751RX22	H750RX22	H756RX22	H757RX22
	24	H751RX24	H750RX24	H756RX24	H757RX24
	26	H751RX26	H750RX26	H756RX26	H757RX26
	28	H751RX28	H750RX28	H756RX28	H757RX28
	30	H751RX30	H750RX30	H756RX30	H757RX30

Laryngeal Mirrors Handles		REF			
each		400	440		



MICRO

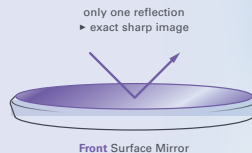
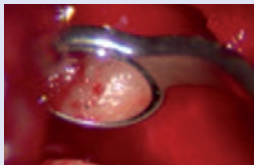
Stainless Steel, satin finished

BLACKline coating

The micro mirrors are excellent for microsurgery, featuring a thickness of just 0.6 mm.

MICROflex comes with a flexible handle for individually adjusted mirror positioning.

The front surface coating results in an exceptionally sharp reflection, which is essential in microsurgery.



The ultra-bright HD-quality mirror offers a brilliantly color-true image. This combination makes the smallest details visible and allows for optimized work.

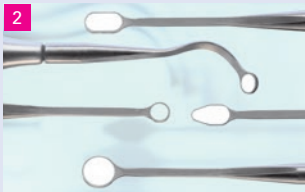
The satin finish of the stainless steel instruments prevents disturbing reflections for the eyes. This also applies to the DiamondLikeCarbon BLACKLINE coating.



MICRO



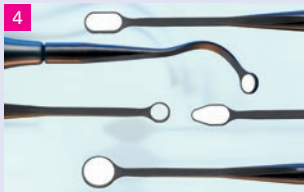
Stainless Steel, satin finished:
ULTRAmicro
MEGAmicro



Stainless Steel, satin finished:
ULTRAmicro flex
MEGAmicro flex



BLACKline:
ULTRAmicro
MEGAmicro



BLACKline:
ULTRAmicro flex
MEGAmicro flex

INFO: All MICRO mirrors have an SS thread and are compatible with all handles that have a SS thread.

Stainless Steel, satin finished	1	1	2	2
each	ULTRAmicro	MEGAmicro	ULTRAmicro flex	MEGAmicro flex
Ø 3 mm	6181	6200	5181	5200
Ø 5 mm	6182	6220	5182	5220
oval 3x6 mm	6183	6232	5183	5232
drop-shaped 3x6 mm	6184	6240	5184	5240

BLACKline	3	3	4	4
each	ULTRAmicro	MEGAmicro	ULTRAmicro flex	MEGAmicro flex
Ø 3 mm	B6181	B6200	B5181	B5200
Ø 5 mm	B6182	B6220	B5182	B5220
oval 3x6 mm	B6183	B6232	B5183	B5232
drop-shaped 3x6 mm	B6184	B6240	B5184	B5240



ERGOtouch

Form follows function –
meets ergonomic requirements

ERGOtouch instruments made of satin-finished stainless steel are hollow and feel evenly light-weight in the hand. The textured design and the recessed grip ensure a secure hold and a pleasant tactile experience. The satin-finished surface eliminates distracting light reflections.

The colored ends are made of glass fiber-reinforced plastic, which has been successfully used in practice since 2015. This material is autoclavable, color stable, form stable, and resistant to acids and plaque indicators.

The ERGOform handle,
made of satin-finished stainless steel,
is hollow and feels perfectly balanced and light
in the hand.





Contents: 1 handle without mirror.

Handles for Mouth Mirrors, Length 130 mm			SS-thread REF	CS-thread [*] REF
ERGOfouch, with coloured end of the handle			REF	
	white	each	620	780
	pastel yellow	each	621	781
	pastel blue	each	622	782
	pastel mint	each	623	783
	pink	each	624	784
	pastel lavender	each	625	785
	anthracite	each	626	786
ERGOfouch, stainless steel, satin-finished, hollow				
	Stainless Steel	each	442	443

^{*}Due to a larger thread-diameter, the CS-thread fits only on mouth mirrors with CS-thread.
CS is mainly used in the USA, Canada, South-Korea and Spain.



ERGOform

Stainless Steel, satin finished

PEEK

Ergonomic design

These handles are lightweight and balanced in the hand due to their slim end. The larger diameter and grip recesses allow for a comfortable grip and relaxed working.

Pleasant haptic

The micro-finely textured, satin-matt surface and gently rounded edges provide a very pleasant feel.

Satin-finished surfaces

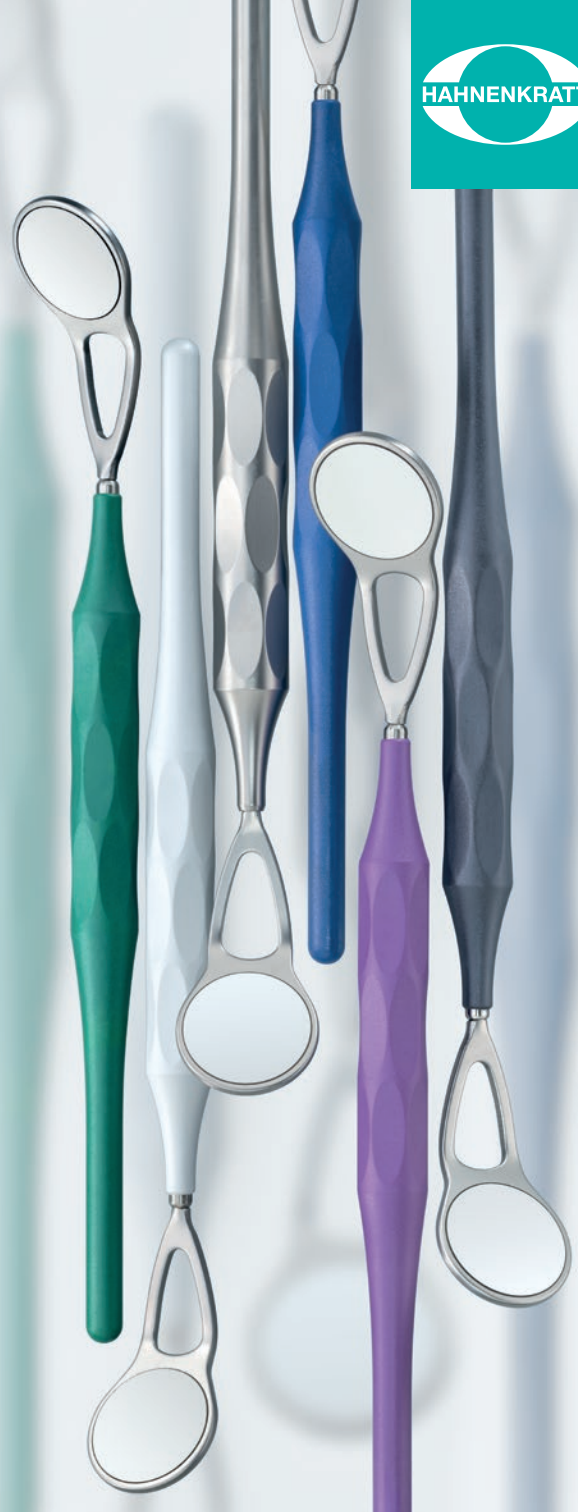
These prevent unwanted light reflections and give the handle a refined finish.

The ERGOform handle, made of satin-finished stainless steel


is hollow and feels well-balanced and lightweight in the hand.

The ERGOform handles made of PEEK

PEEK is dimensionally and color-stable up to 210°C and can be sterilized both in an autoclave and with hot air.





Handles for Mouth Mirrors, Length 135 mm			SS-thread REF	CS-thread [*] REF
ERGOform, PEEK			REF	
	ocean blue	each	580	590
	creme white	each	581	591
	turquoise	each	582	592
	violet	each	584	594
	anthracite	each	585	595
ERGOform, Stainless Steel, hollow				
		each	492	

^{*}Due to a larger thread-diameter, the CS-thread fits only on mouth mirrors with CS-thread.
CS is mainly used in the USA, Canada, South-Korea and Spain.



ERGOform 134°C

Ergonomical design

The ERGOform Handles are lightweight and wellbalanced due to the slim shaped end of the Handle. The wider diameter in the front and especially the grip recesses provide relaxed grip and thus relaxed working.

Pleasant haptics

The satin-finished surface and the smoothly rounded edges provide pleasant haptics and handling.

Keeping quality

colour stable, resistant against acids as well as against plaque-indicators

Autoclavable up to 134°C



ERGOform 134°C, Handles for Mouth Mirrors, Length 135 mm			SS-thread REF	CS-thread [*] REF
	white	each	540	560
	pastel yellow	each	541	561
	pastel blue	each	542	562
	pastel mint	each	543	563
	pink	each	544	564
	pastel lavender	each	545	565
	anthracite	each	546	566
	ocean blue	each	547	567
	turquoise green	each	548	568
	berry	each	549	569

^{*}Due to a larger thread-diameter, the CS-thread fits only on mouth mirrors with CS-thread.
CS is mainly used in the USA, Canada, South-Korea and Spain.



Handles

Stainless Steel polished

Stainless Steel satin finished

The perfect handle for every dentist

Pleasant haptics

The high quality is characterized by the careful finish. The surfaces are finely polished and all edges are smoothly rounded, ensuring the instrument feels comfortable in the hand.

The hollow Handles are well-balanced and lightweight. A wider diameter of some handles and especially the grip recesses allow for a relaxed grip and easy handling.

Satin-finished surface


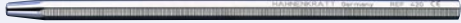


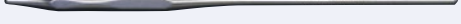

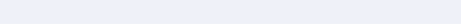
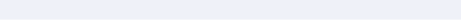
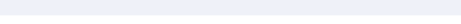
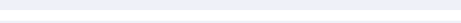
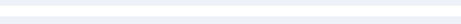
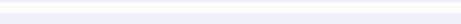

eliminates disturbing glares and gives the instruments an exclusive finish.

Outstanding stability against corrosion

According to our experience of over 60 years, the stainless steel is stable against corrosion. It complies with EN ISO 7153-1 (Surgical Instruments – Metallic materials).



Handles Stainless Steel

Handles for Mouth Mirrors, Length 130 mm	Features	Content	SS-thread REF	CS-thread [*] REF
	polished, octagonal	each	413	415
	polished, octagonal, serrated	each	420	421
	polished, round, serrated	each	426	427
	polished, round, serrated	each	5012	5013
	polished, with grip recesses	each	430	431
	polished, hexa- gonal, hollow	each	470	471
	satin-finished, hexagonal, hollow	each	476	477
	polished, hexag., hollow 135 mm	each	480	481
	satin-finished, hexagonal, with scale, (not calibrated)	each	474	
	polished, hollow	each	460	461
	satin-finished surface, hollow	each	466	467
	ERGOtouch	each	442	443
	ERGOform, 135 mm	each	492	

^{*}Due to a larger thread-diameter, the CS-thread fits only on mouth mirrors with CS-thread.
CS is mainly used in the USA, Canada, South-Korea and Spain.



Photography Mirrors

Rhodium Front Surface

ULTRA Front Surface

The precisely sharp reflection is high-contrast down to the finest detail. Combined with brilliant color accuracy and pleasantly bright reflection, you get intraoral images of great clarity.



The capture of the mirror image reveals new perspectives.



Rhodium FS
Canon 7D and Metz flash:
Aperture 25 – Shutter speed
125 – ISO 100



ULTRA FS
The unique construction of the reflective layers – consisting of 22 layer packages – provides an exceptionally bright mirror image through optimized light refraction.



Photography Mirrors



REF 6660 KO / empty



REF 6530 X ... / 6730 X ...



REF 6540 X ... / 6740 X ...



REF 6550 X ... / 6750 X ...

Form 1, 2, 3, 4 without handle:
REF 6500 X ... / Rhodium mirrors
REF 6700 X ... / ULTRA mirrors

Photography Mirrors / each		double-sided without handle	handle bent		handle V-shaped		handle straight	
Form	mm	REF FS Rhodium	REF FS Rhodium	REF ULTRA FS	REF FS Rhodium	REF ULTRA FS	REF FS Rhodium	REF ULTRA FS
	58x76	6300 X 1	6530 X 1	6730 X 1			6550 X 1	6750 X 1
	66x95	6300 X 5	6530 X 5	6730 X 5			6550 X 5	6750 X 5
	74x106	6300 X 2	6530 X 2	6730 X 2			6550 X 2	6750 X 2
	42x128	6300 X 3	6530 X 3	6730 X 3	6540 X 3	6740 X 3		
	36x120		6530 X 3KFO	6730 X 3KFO	6540 X 3KFO	6740 X 3KFO		
	55/40x157	6300 X 4						
	53/31x142	6300 X 6						
	86/77x133	6300 X 7						
	71/62x133	6300 X 8						
	47x153	6300 X 9						
Suitcase for Photography Mirrors / empty			REF					
For 3 Photography Mirrors with handle, empty Outside: 285x240x100 mm			6660 KO					



ERGOtouch

Explorers

The handles are made out of satin-finished stainless steel are hollow and thus ensure low-fatigue work. The grip recess and the design with maximum grip allows safe holding while the satin-finished surface eliminates disturbing glares.

The coloured handle ends are made out of glassfiberreinforced plastic material that is successfully used in practice since 2015. The material is autoclavable, colour- and shape-stable as well as resistant against acids and plaque-indicators.

The explorer part is made out of surgical steel according to EN ISO 7492 and thus ensures a high bending strength and flexibility.

The handles are also available for mouth mirrors.

The Explorers are permanently fixed.

Autoclavable up to 134°C





ERGOflex duo Explorers (permanently fixed)



ERGOflex Explorers, one-sided (permanently fixed)



1 Pack.						
	Handles for Mouth Mirrors (SS thread)	Form A 010 Fig. 23	Form C 030 Fig. 8	Form D 040 Fig. 9	Form F 060 Fig. 6	Form G 070 Fig. 17
ERGOflex duo						
REF						
stainless steel	667	667A+...	667C+...	667D+...	667F+...	667G+...
ERGOflex duo can be combined with every probe tip, e.g. REF 667A+C / 667A+D						
ERGOflex						
stainless steel	442	600A	600C	600D	600F	600G
white	620	620A	620C	620D	620F	620G
pastel yellow	621	621A	621C	621D	621F	621G
pastel blue	622	622A	622C	622D	622F	622G
pastel mint	623	623A	623C	623D	623F	623G
pink	624	624A	624C	624D	624F	624G
pastel lavender	625	625A	625C	625D	625F	625G
anthracite	626	626A	626C	626D	626F	626G



ERGOform

Explorers

The handles are made out of glassfiber-reinforced plastic material. This is successfully used in practice since 2015 with our RELAX Mouth Mirrors. The material is autoclavable, colour- and shape-stable as well as resistant against acids and plaque-indicators.

Because of the lightweight material low-fatigue work is ensured and the wider diameter in the front and especially the grip recess provide a relaxed grip.

The explorer part is made out of surgical steel according to EN ISO 7492 and thus ensures a high bending strength and flexibility.

The handles are also available for mouth mirrors.

The Handles are available in the same colours as the RELAX Mouth Mirrors.















The Explorers are permanently fixed.

Autoclavable up to 134°C





ERGOform Explorers, one-sided (permanently fixed)

ERGOform Handles and Explorers / each						
1 Pack.	 Handles for Mouth Mirrors (SS thread)	 Form A 010 Fig. 23	 Form C 030 Fig. 8	 Form D 040 Fig. 9	 Form F 060 Fig. 6	 Form G 070 Fig. 17
REF						
 white	540	540A	540C	540D	540F	540G
 pastel yellow	541	541A	541C	541D	541F	541G
 pastel blue	542	542A	542C	542D	542F	542G
 pastel mint	543	543A	543C	543D	543F	543G
 pink	544	544A	544C	544D	544F	544G
 pastel lavender	545	545A	545C	545D	545F	545G
 anthrazit	546	546A	546C	546D	546F	546G
ERGOform, stinless steel, hollow						
	492					



PSI Periodontometer

Measurement scale as per Prof. Dr. Günay

According to the new PAR classification, treatment steps and Perio guideline (DE 2021).

Tip

Fine, rounded tip – gentle on tissue

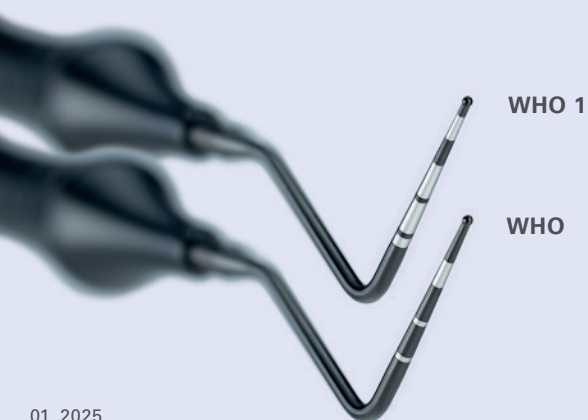
Deep black »Diamond Like Carbon« DLC coating

for maximum contrast and optimised readability of the measurement scale. Virtual wear-free, non-fading coating.

Seamless transitions in the measurement area

Absolutely resistant

to all types of disinfection and sterilisation



PSI Periodontometer

as per Prof. Dr. Günay

Periodontometer with new measurement scale according to the new »Perio guideline for the systematic treatment of periodontitis and other periodontal diseases«. This guideline came into force in Germany on 1st July 2021 and is the first independent guideline for periodontal treatment.

With the new measurement scale, all values necessary for the implementation of the new guideline concerning the new classification and the new therapy steps can be determined. It simplifies the diagnosis of periodontal and peri-implant diseases in accordance with the new guideline.

Probe depth < 3.5 mm: Code 0 – Code 2

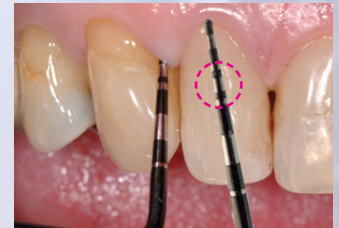
Probe depth 3.5 – 5.5 mm: Code 3

Probe depth > 5.5 mm: Code 4

The two narrow, black depth markings serve as a reference for quick reading of the PSI values 3.5 and 5.5 mm.



Width of the attached gingiva



References: 3.5 and 5.5 mm



Probe depth of tooth 11 in the distovestibular site



Probe depth of tooth 21 in the mesiopalatal site

Intra-oral images:

Prof. Dr. Günay, DGParo – Periodontal Specialist, Hanover / Germany

PSI Periodontometer



Periodontometer		REF 701...	REF 54...	REF B442...	REF 442...	REF 5012...
	WHO 3,5 – 5,5 – 8,5	701WHO	 546WHO	B442WHO	442WHO	5012WHO
			 540WHO			
			 541WHO			
			 542WHO			
			 543WHO			
			 544WHO			
			 545WHO			
	WHO 1 3,5 – 5,5 – 8,5	701WHO1	 546WHO1			5012WHO1
			 540WHO1			
			 541WHO1			
			 542WHO1			
			 543WHO1			
			 544WHO1			
			 545WHO1			



PSI Periodontometer



Periodontometer		REF 700...	REF 546...	REF B442...	REF 442...	REF 5012...
PA-Sonde (Prof. Dr. GÜNAY) 0,5 – 1 – 2 – 3(3,5) – 4 – 5(5,5) – 6 – 8 – 10 – 12		700GY	546GY	—	—	5012GY
PCP11 3 – 6 – 8 – 11		700PCP11	546PCP11	B442PCP11	442PCP11	5012PCP11
PCP12 3 – 6 – 9 – 12		700PCP12	546PCP12	B442PCP12	442PCP12	5012PCP12
PCP22 2 – 4 – 6 – 8 – 10 – 12		700PCP22	546PCP22	B442PCP22	442PCP22	5012PCP22
UNC12 Measurement scale coded with 1 mm divisions (1–12 mm)		700UNC12	546UNC12	B442UNC12	442UNC12	5012UNC12
UNC15 Measurement scale coded with 1 mm divisions (1–15 mm)		700UNC15	546UNC15	B442UNC15	442UNC15	5012UNC15
DPSI 4 – 6		700DPSI	546DPSI	B442DPSI	442DPSI	5012DPSI
Goldman Fox 1 – 2 – 3 – 5 – 7 – 8 – 9 – 10		700GF	546GF	B442GF	442GF	5012GF
Michigan 3 – 6 – 8		700MI	546MI	B442MI	442MI	5012MI
Williams 1 – 2 – 3 – 5 – 7 – 8 – 9 – 10		700WI	546WI	B442WI	442WI	5012WI



Root Post System

Overview

Root Post white, opaque

EXATEC



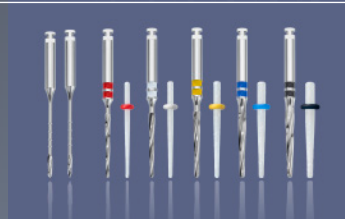
CYTEC

CYTEC eco



CONTEC

CONTEC eco



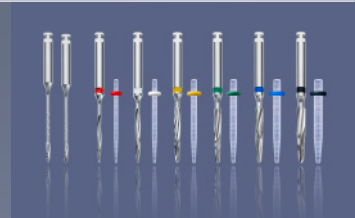
Root Post crystal clear, translucent pro LightTransmitting

IDS 2025
NEWS

CYTECpro

CYTECpro eco

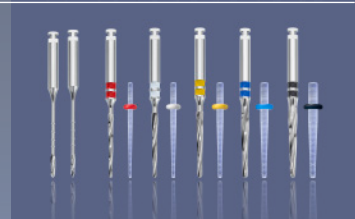
LightTransmitting



CONTECpro

CONTECpro eco

LightTransmitting



All eco versions are without retentions.

Exatec Titan

Root Post System

Optimized stability of reconstruction

The conical apical part can be designed longer than a cylindrical shape and has an exceptionally small end. Due to these advantages the conical Exatec posts can be inserted deeply into the root canal.

Exatec

Passive root posts made of Titanium with a microrough surface.

Exatec-S

Active root posts made of Titanium with a special shaped self-tapping thread.

The anchoring is made with maximum 3 rotations without putting strain to the dentine and with a torque of only 7,9 +/- 1,7 Ncm*) that is comparatively low.

*) determined in a comparative dissertation in 1994

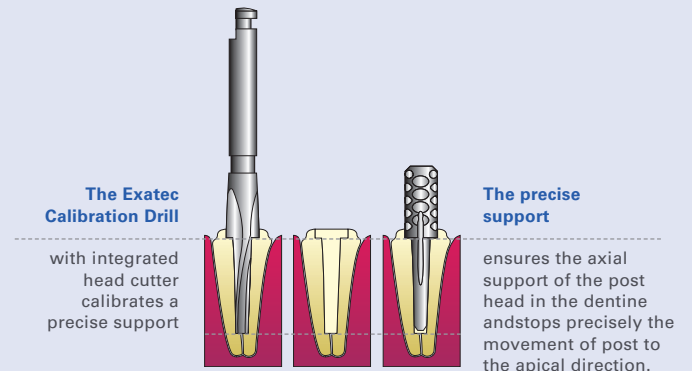
The System

A root post with a tapered apical part offers many advantages over a cylindrical post:

Due to the tapered shape, which corresponds to the natural contour of the tooth root, more tooth substance is preserved in the critical area of the root tip, thus minimizing the risk of root fractures.

At the transition from post to head, which is prone to breakage, the tapered Exatec post has rounded transitions and a larger post cross-section compared to a cylindrical post of the same apical length. The Exatec post thus has higher stability and achieves higher values in bending load tests.

The Exatec calibration drill prepares a precisely fitting axial support for the Exatec post head, which inherently determines the position where the post has dentin contact without exerting pressure on the root wall, as the downward movement of the post is precisely stopped at the axial support.



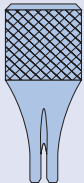
Exatec-S root post exact placing
by using Glasionenemercement Ketac Cem Radiopaque, because of a minimal grain size of 0,1 – 1, 2µm (magnification 10x)

Exatec-Ti



- 2 cement escape grooves
- Large post cross-section ($> 3 \text{ mm}^2$) and rounded juncture provide for high strength
- Rounded tip

Exatec-S





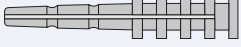

- 4 cement escape grooves
- Large post cross-section ($> 3 \text{ mm}^2$) and rounded juncture provide for high strength
- Self-tapping thread
- Rounded tip



REF 10 000 + 10 004 (empty)



Exatec Titan

Root Post System		Post head-Ø apik. length apic. Stift Ø ▲ apic. Stift Ø ▼ mm	universal	2,6 6,6 1,461 0,98 mm	2,7 8,0 1,559 0,98 mm	2,8 9,7 1,681 0,98 mm	3,0 11,4 1,803 0,98 mm
		Code	–	white	yellow	blue	black
Instruments, universal for all Modules		Package of	REF				
	Preshaping Drill with guiding tip	1	42 010				
	Preshaping Drill with cutting tip	1	43 000				
	Pilot Drill with cutting tip	1	42 100				
	Calibration Drill	1		42 001	42 002	42 003	42 004
	Measuring Template	1	42 050				
Exatec-Ti		Standard Set	Assortment	42 300*			
	Root Post	5		42 311C5	42 312C5	42 313C5	42 314C5
	Root Post	10		42 311	42 312	42 313	42 314
System Box + Organizer, empty		1+1	10 004 + 10 000				
Exatec-S		Standard Set	Assortment	45 500*			
	Root Post	5		45 511C5	45 512C5	45 513C5	45 514C5
	Root Post	10		45 511	45 512	45 513	45 514
	Insertion-Tool	1	45 522				
System Box + Organizer, empty		1+1	10 005 + 10 000				

*The Standard Sets and Test Sets are shipped in a SHIPPING BOX. Posts and Drills each in blister packs.
Please see the price list for the contents.



Exatec

Root Post System

Exatec posts are designed for teeth with significant coronal destruction.

High bending strength

Achieved through the use of high tenacity HT Glassfiber, which bonds perfectly with the matrix.

HT Glassfiber: 1.678 MPa

Determined accordingly to EN ISO 178

High fatigue and fracture resistance

Homogeneity due to dentin-like elastic modulus

Secure adhesion due to micro-retentive surface

High radiopacity

Exatec drills

Efficient and sharply cutting

Scientifically tested and proven in practice since 2001.

For further information please see our brochure
»Exatec+Cyttec+Contec« or visit our website
www.hahnenkratt.com

Homogeneity due to dentine-like E-Modulus

According to Professor Dr. Wintermantel from the faculty for »Biocompatible Materials and Building Techniques« of the University of Zurich, Switzerland, the following applies to a load-bearing implant: »Its homoelasticity is an important requirement for the structural compatibility of a load-bearing implant. This refers to the elastic deformation behaviour of an implant approaching that of the recipient tissue.« This also applies to root posts.

Our HT-Glassfibre material exhibit a modulus of elasticity resembling that of dentine. This approaches the required homoelasticity.

A core which is as homogeneous as possible reduces the risk of the root fracturing and promotes the stability of the post and core.

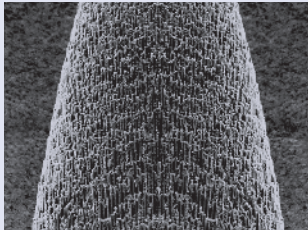


Elasticity in comparison

Elasticity in comparison	13,6 GPa (according to DIN 53 390)
Dentine	≈18,6 GPa
Titanium	117,0 GPa
Zirconium	190,0 GPa



Bionics offers indications for the technical way of designing biological systems. Even the fibre reinforced composite technique originates from biological structures.





REF 42 600







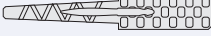
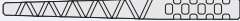
*The Standard Sets and Test Sets are shipped in a SHIPPING BOX. Posts and Drills each in blister packs. Please see the price list for the contents.



REF 10 003 + 10 000



Refill Pack

Exatec Root Post System		Post head-Ø apik. length apic. Stift Ø ▲ apic. Stift Ø ▼ mm	universal	2,6 6,6 1,461 0,98 mm	2,7 8,0 1,559 0,98 mm	2,8 9,7 1,681 0,98 mm	2,2 – – 0,98 mm
		Code	–	white	yellow	blue	green
Instruments		package of	REF				
	Preshaping Drill with guiding tip	1	42 010				
	Preshaping Drill with cutting tip	1	43 000				
	Pilot Drill with cutting tip	1	42 100				
	Calibration Drill	1		42 001	42 002	42 003	
	Calibration Drill	1					42 005
Exatec		Standard Set	Assortment	42 600*			
	Root Post	5		42 611C5	42 612C5	42 613C5	
	Root Post	10		42 611	42 612	42 613	
	Root Post	10					42 615
System Box		1	10 003				
Organizer, empty		1	10 000				



CYTEC

Root Post System

CYTEC is designed for roots that are more cylindrical in shape.

High bending strength

Achieved through the use of high tenacity HT Glassfiber, which bonds perfectly with the matrix.

HT Glassfiber: 1.678 MPa

Determined accordingly to EN ISO 178

High fatigue and fracture resistance

Homogeneity due to dentin-like modulus of elasticity

High radiopacity

Secure adhesion due to micro-retentive surface

The preformed surface roughness enhances the adhesion of the root post to the adhesive system, the composite. The additional applied mesh-like retentions optimize this adhesion.

With CYTEC eco,

the particularly careful application of the adhesive system is essential, as CYTEC eco does not have the mesh-like retentions.

Scientifically tested and proven in practice since 2001.

For further information please see our brochure

»Exatec+Cytec+Contec« or visit our website

www.hahnenkratt.com

The utmost fatigue and fracture resistance

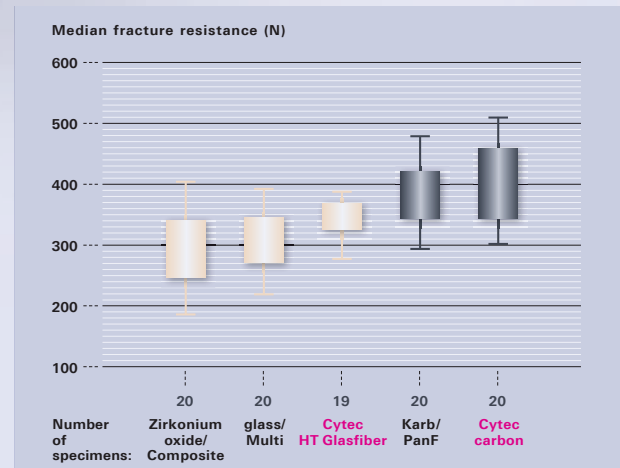
As our HT Glasfiber exhibits high bending strength they are very highly fatigue and fracture resistant. This was proven by the results of comparative scientific studies carried out in-vitro.¹

During another study, CYTEC specimen attained an even higher fracture resistance value of 509 N (mean), and this, despite the fact that, where the composite tooth transition is concerned, the starting specimen only exhibited a »Perfect Margin before TCML« value of 72%. This value of 509 N was determined after simulating a period of 5 years in situ (TCML 6000 x 5°C/55°C, each 2 min, $1.2 \cdot 10^6 \times 50$ N). In addition, a porcelain crown was fitted to these specimen (ferrule effect).²

In comparison: Scientific studies indicate masticatory loading values of 30–80 N for premolars and canines and 150–250 N for incisors.

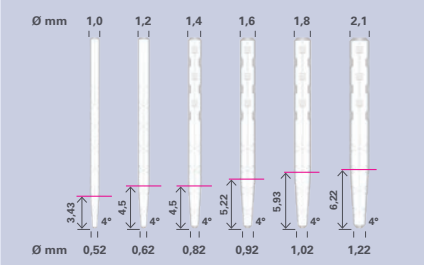
(1) Dr. med. dent. Katrin Babenhauserheide Untersuchungen zur mechanischen Belastbarkeit und zum Verlauf der Bruchflächen verschiedener Stiftstrumpfaufbausysteme nach künstlicher Alterung. Ergebnisse einer In-vitro-Studie unter standardisierten Bedingungen – Inauguraldissertation zur Erlangung der zahnmedizinischen Doktorwürde der Charité-Universitätsmedizin Berlin, 02.04.2004

(2) Martin Rosentritt (Dipl. Ing. (FH))
Fracture Strength of Fiber-reinforced and All-ceramic Post and Core Anterior Restorations
Universität Regensburg 03/2003



Root posts made out of Glasfiber:
Highest fracture resistance for Cytec: 348.8 N (mean value)






Results of a scientific study performed by the Charité Berlin¹



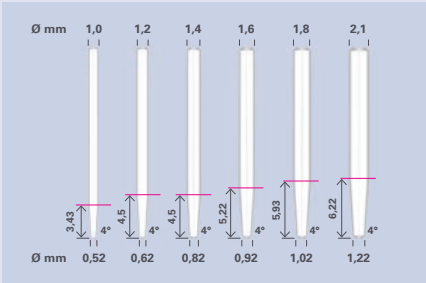
REF 43 600

Refill Pack

*The Standard Sets and Test Sets are shipped in a SHIPPING BOX. Posts and Drills each in blister packs. Please see the price list for the contents.

CYTEC Root Post System			universal	1,0 mm	1,2 mm	1,4 mm	1,6 mm	1,8 mm	2,1 mm
		Code	–	red	white	yellow	green	blue	black
Instruments		pack.of	REF						
	Preshaping Drill with guiding tip	1	42 010						
	Preshaping Drill with cutting tip	1	43 000						
	Calibration Drill	1		4300 D10	43 001	43 002	4300 D16	43 003	43 004
CYTEC									
	Standard Set	assort.	43 600*						
	Test Set	assort.	43 610*						
	ChangeOverSet Kit with 1 Drill per REF	assort.	43 600COS						
	HT-Glassfiber	5		43 60D10C5	43 601C5	43 602C5	43 60D16C5	43 603C5	43 604C5
	HT-Glassfiber	10		43 60D10	43 601	43 602	43 60D16	43 603	43 604
System Box, empty		1	10 001						




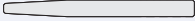




REF 43 600

REF 10 001 (empty)

*The Standard Sets and Test Sets are shipped in a SHIPPING BOX. Posts and Drills each in blister packs. Please see the price list for the contents.

CYTEC Root Post System			universal	1,0 mm	1,2 mm	1,4 mm	1,6 mm	1,8 mm	2,1 mm
		Code	–	red	white	yellow	green	blue	black
Instruments		pack.of	REF						
	Preshaping Drill with guiding tip	1	42 010						
	Preshaping Drill with cutting tip	1	43 000						
	Calibration Drill	1		4300 D10	43 001	43 002	4300 D16	43 003	43 004
CYTEC eco									
	Standard Set	assort.	43 700*						
	Test Set	assort.	43 710*						
	ChangeOverSet Kit with 1 Drill per REF	assort.	43 700COS						
	HT-Glassfiber	5		43 70D10	43 701	43 702	43 70D16	43 703	43 704
System Box, empty		1	10 001						



IDS 2025 NEWS

CYTECpro

pro LightTransmitting

The new pro root posts are a good addition to the EXATEC, CYTEC, and CONTEC root posts made of white opaque HT-Glassfiber, which have been proven in practice worldwide for over 20 years.

pro LightTransmitting throughout the entire apical post area for – optimized and shortened – primary curing of the composite, up to the tip of the root post. In a tightly timed schedule, the dentist gains valuable seconds to be able to proceed with the next step without losing time.

The new pro line features the same excellent properties, particularly in terms of stability and secure bonding with composite materials.

High bending strength

High fatigue and fracture resistance

Homogeneity due to dentin-like modulus of elasticity

High radiopacity

Secure adhesion due to micro-retentive surface

With CYTECpro eco,
the particularly careful application of the adhesive system is essential, as CYTECpro eco does not have the mesh-like retentions.

The utmost fatigue and fracture resistance

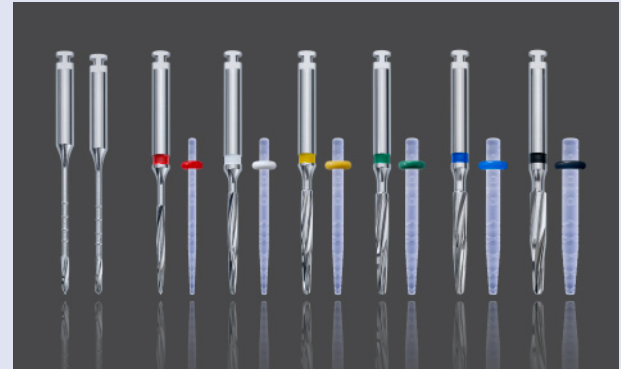
As our HT Glasfiber exhibits high bending strength they are very highly fatigue and fracture resistant. This was proven by the results of comparative scientific studies carried out in-vitro.¹

During another study, CYTEC specimen attained an even higher fracture resistance value of 509 N (mean), and this, despite the fact that, where the composite tooth transition is concerned, the starting specimen only exhibited a »Perfect Margin before TCML« value of 72%. This value of 509 N was determined after simulating a period of 5 years in situ (TCML 6000 x 5°C/55°C, each 2 min, $1.2 \cdot 10^6 \times 50$ N). In addition, a porcelain crown was fitted to these specimen (ferrule effect).²

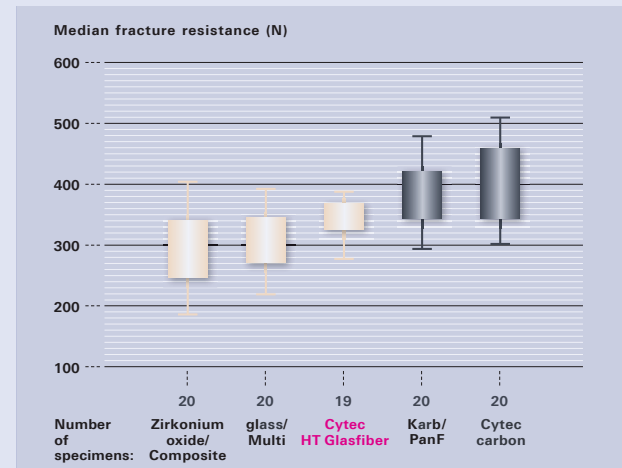
In comparison: Scientific studies indicate masticatory loading values of 30–80 N for premolars and canines and 150–250 N for incisors.

1 Dr. med. dent. Katrin Babenhauserheide Untersuchungen zur mechanischen Belastbarkeit und zum Verlauf der Bruchflächen verschiedener Stiftstrumpfaufbausysteme nach künstlicher Alterung. Ergebnisse einer In-vitro-Studie unter standardisierten Bedingungen – Inauguraldissertation zur Erlangung der zahnmedizinischen Doktorwürde der Charité-Universitätsmedizin Berlin, 02.04.2004

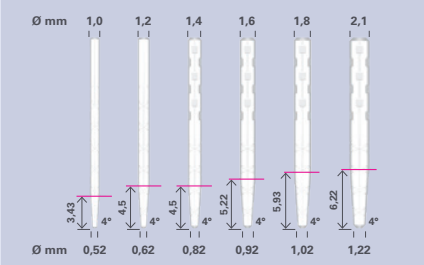
2 Martin Rosentritt (Dipl. Ing. (FH))
Fracture Strength of Fiber-reinforced and All-ceramic Post and Core Anterior Restorations
Universität Regensburg 03/2003



1 Results of a scientific study performed by the Charité Berlin¹








Root posts made out of Glassfiber:
Highest fracture resistance for Cytec: 348.8 N (mean value)



REF 43 600

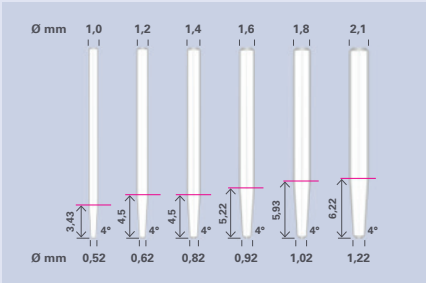
Refill Pack

*The Standard Sets and Test Sets are shipped in a SHIPPING BOX. Posts and Drills each in blister packs. Please see the price list for the contents.

CYTECpro Root Post System			universal	1,0 mm	1,2 mm	1,4 mm	1,6 mm	1,8 mm	2,1 mm
		Code	–	red	white	yellow	green	blue	black
Instruments		pack.of	REF						
	Preshaping Drill with guiding tip	1	42 010						
	Preshaping Drill with cutting tip	1	43 000						
	Calibration Drill	1		4300 D10	43 001	43 002	4300 D16	43 003	43 004
CYTECpro									
	Standard Set	assort.	43 800*						
	Test Set	assort.	43 810*						
	ChangeOverSet Kit with 1 Drill per REF	assort.	43 800COS						
	HT-Glassfiber	5		43 80D10C5	43 801C5	43 802C5	43 80D16C5	43 803C5	43 804C5
	HT-Glassfiber	10		4380D10	43 801	43 802	43 80D16	43 803	43 804
System Box, empty		1	10 001						





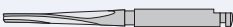

CYTECpro eco



REF 43 600

REF 10 001 (empty)

*The Standard Sets and Test Sets are shipped in a SHIPPING BOX. Posts and Drills each in blister packs. Please see the price list for the contents.

CYTECpro eco Root Post System			universal	1,0 mm	1,2 mm	1,4 mm	1,6 mm	1,8 mm	2,1 mm
		Code	–	red	white	yellow	green	blue	black
Instruments		pack.of	REF						
	Preshaping Drill with guiding tip	1	42 010						
	Preshaping Drill with cutting tip	1	43 000						
	Calibration Drill	1		4300 D10	43 001	43 002	4300 D16	43 003	43 004
CYTECpro eco									
	Standard Set	assort.	43 900*						
	Test Set	assort.	43 910*						
	ChangeOverSet Kit with 1 Drill per REF	assort.	43900-COS						
	HT-Glassfiber	5		4390D10	43 901	43 902	4390D16	43 903	43 904
System Box, empty		1	10 001						



CONTEC

Root Post System

CONTEC is designed for roots that are more tapered. The double taper closely matches the natural shape of the root canal.

High bending strength

Achieved through the use of high tenacity HT Glassfiber, which bonds perfectly with the matrix.

HT Glassfiber: 1.678 MPa

Determined accordingly to EN ISO 178

High fatigue and fracture resistance

Homogeneity due to dentin-like modulus of elasticity

High radiopacity

Secure adhesion due to micro-retentive surface

The preformed surface roughness enhances the adhesion of the root post to the adhesive system, the composite. The additional applied mesh-like retentions optimize this adhesion.

With CONTEC eco,

the particularly careful application of the adhesive system is essential, as CONTEC eco does not have the mesh-like retentions.

Scientifically tested and proven in practice since 2001.

For further information please see our brochure

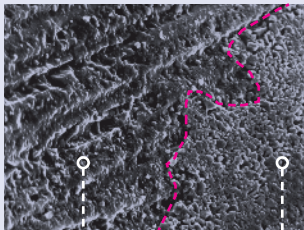
»Exatec+Cyttec+Contec« or visit our website

www.hahnenkratt.com

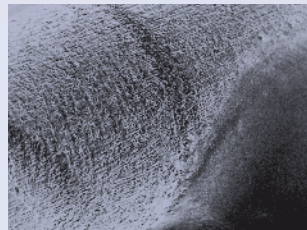
Secure adhesion through micro-retentive surface

The additional mesh structure on the surface of the CONTEC post enhances the adhesive bond between the micro-retentive surface of the post and the resin. The result is an exceptionally secure adhesion – without the use of a silane – simple and efficient.

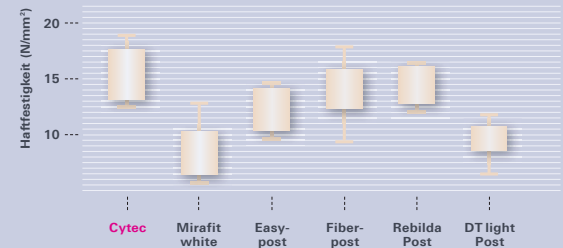
Scientific studies conducted at the University of Rostock have demonstrated this for the CYTEC system. These results are transferable to CONTEC, as both posts have the same surface mesh structure.



Root post with bonder
Fibrous structure still visible



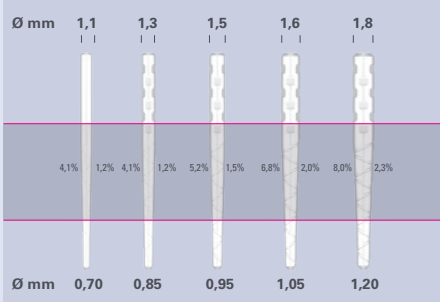
Root post with
bonder + composite



In the comparison, CYTEC blanco achieved the highest bonding strength. This shows that the unique surface structure of our root posts supports micro-retentive adhesion, leading to optimised bonding between the post and the adhesive bonding material.






Published in Biomed Tech 2009
Scientific study at the University of Rostock

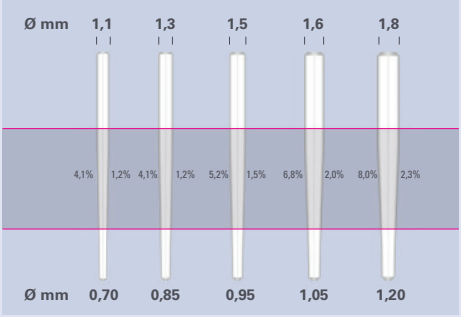




Refill Pack

*The Standard Sets and Test Sets are shipped in a SHIPPING BOX. Posts and Drills each in blister packs. Please see the price list for the contents.

CONTEC Root Post System			universal	1,1 mm	1,3 mm	1,5 mm	1,75 mm	2,0 mm
		Code	–	red	white	yellow	blue	black
Instruments		package of	REF					
	Preshaping Drill with guiding tip	1	42 010					
	Preshaping Drill with cutting tip	1	43 000					
	Calibration Drill	1		44 00 D11	44 001	44 002	44 003	44 004
CONTEC								
	Standard Set	Assortment	44 600*					
	Test Set	Assortment	44 610*					
	ChangeOverSet Kit with 1 Drill per REF	Assortment	44 600COS					
	HT-Glassfiber	5		44 60D11C5	44 601C5	44 602C5	44 603C5	44 604C5
	HT-Glassfiber	10		4460 D11	44 601	44 602	44 603	44 604
System Box, empty		1	10 002					







REF 44 700



REF 10 002 (empty)

* The Standard Sets and Test Sets are shipped in a SHIPPING BOX. Posts and Drills each in blister packs. Please see the price list for the contents.

CONTEC eco Root Post System			uni- versal	1,1 mm	1,3 mm	1,5 mm	1,75 mm	2,0 mm
		Code	–	red	white	yellow	blue	black
Instruments		package of	REF					
	Preshaping Drill with guiding tip	1	42 010					
	Preshaping Drill with cutting tip	1	43 000					
	Calibration Drill	1		44 00 D11	44 001	44 002	44 003	44 004
CONTEC eco		Assort- ment	44 700*					
	Test Set	Assort- ment	44 710*					
	ChangeOverSet Kit with 1 Drill per REF	Assort- ment	44 700COS					
	HT-Glassfiber	5		44 70 D11	44 701	44 702	44 703	44 704
System Box, empty		1	10 002					



IDS 2025 NEWS

CONTECpro

pro LightTransmitting

The new pro root posts are a good addition to the EXATEC, CYTEC, and CONTEC root posts made of white opaque HT-Glassfiber, which have been proven in practice worldwide for over 20 years.

pro LightTransmitting throughout the entire apical post area for – optimized and shortened – primary curing of the composite, up to the tip of the root post. In a tightly timed schedule, the dentist gains valuable seconds to be able to proceed with the next step without losing time.

The new pro line features the same excellent properties, particularly in terms of stability and secure bonding with composite materials.

High bending strength

High fatigue and fracture resistance

Homogeneity due to dentin-like modulus of elasticity

High radiopacity

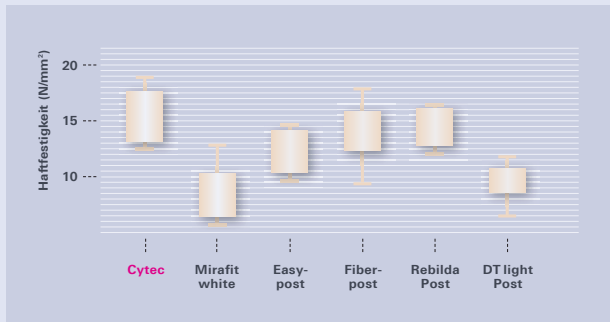
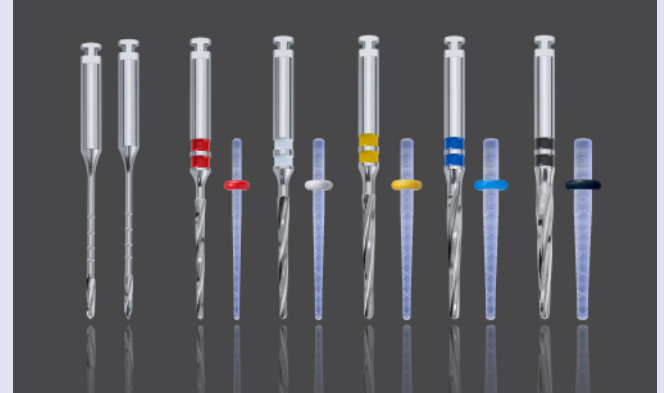
Secure adhesion due to micro-retentive surface

With CONTECpro eco,
the particularly careful application of the adhesive system is essential, as CONTECpro eco does not have the mesh-like retentions.

Secure adhesion through micro-retentive surface

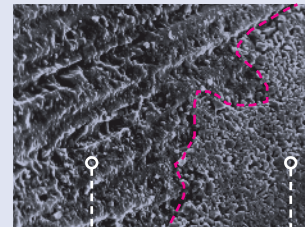
The additional mesh structure on the surface of the CONTEC post enhances the adhesive bond between the micro-retentive surface of the post and the resin. The result is an exceptionally secure adhesion – without the use of a silane – simple and efficient.

Scientific studies conducted at the University of Rostock have demonstrated this for the CYTEC system. These results are transferable to CONTEC, as both posts have the same surface mesh structure.

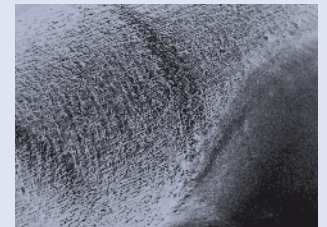


In the comparison, CYTEC blanco achieved the highest bonding strength. This shows that the unique surface structure of our root posts supports micro-retentive adhesion, leading to optimised bonding between the post and the adhesive bonding material.

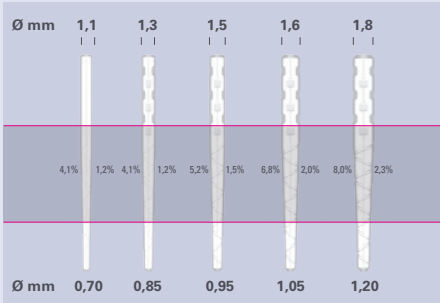
Published in Biomed Tech 2009
Scientific study at the University of Rostock



Root post with bonder
Fibrous structure still visible








Root post with
bonder + composite



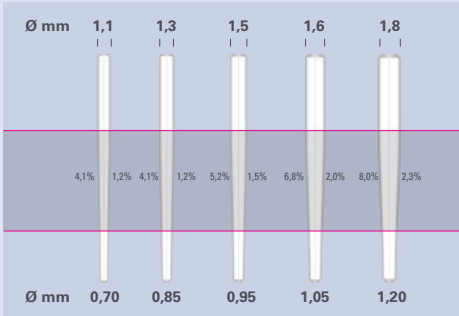
Refill Pack

* The Standard Sets and Test Sets are shipped in a SHIPPING BOX. Posts and Drills each in blister packs. Please see the price list for the contents.





CONTECpro Root Post System			universal	1,1 mm	1,3 mm	1,5 mm	1,75 mm	2,0 mm
		Code	–	red	white	yellow	blue	black
Instruments		package of	REF					
	Preshaping Drill with guiding tip	1	42 010					
	Preshaping Drill with cutting tip	1	43 000					
	Calibration Drill	1		44 00 D11	44 001	44 002	44 003	44 004
CONTECpro								
	Standard Set	Assortment	44 800*					
	Test Set	Assortment	44 810*					
	ChangeOverSet Kit with 1 Drill per REF	Assortment	44 800COS					
	HT-Glassfiber	5		44 80D11C5	44 801C5	44 802C5	44 803C5	44 804C5
	HT-Glassfiber	10		44 80 D11	44 801	44 802	44 803	44 804
System Box, empty		1	10 002					



CONTECpro eco



* The Standard Sets and Test Sets are shipped in a SHIPPING BOX. Posts and Drills each in blister packs. Please see the price list for the contents.

CONTECpro eco Root Post System			uni- versal	1,1 mm	1,3 mm	1,5 mm	1,75 mm	2,0 mm
		Code	–	red	white	yellow	blue	black
Instruments		package of	REF					
	Preshaping Drill with guiding tip	1	42 010					
	Preshaping Drill with cutting tip	1	43 000					
	Calibration Drill	1		44 00 D11	44 001	44 002	44 003	44 004
CONTECpro eco		Assort- ment	44 900*					
	Test Set	Assort- ment	44 910*					
	ChangeOverSet Kit with 1 Drill per REF	Assort- ment	44 900COS					
	HT-Glassfiber	5		4490D11	44 901	44 902	44 903	44 904
System Box, empty		1	10 002					



Matrixes

Stainless Steel

Micro thin:
0,03 / 0,04 / 0,05 mm

Outstanding tensile strength

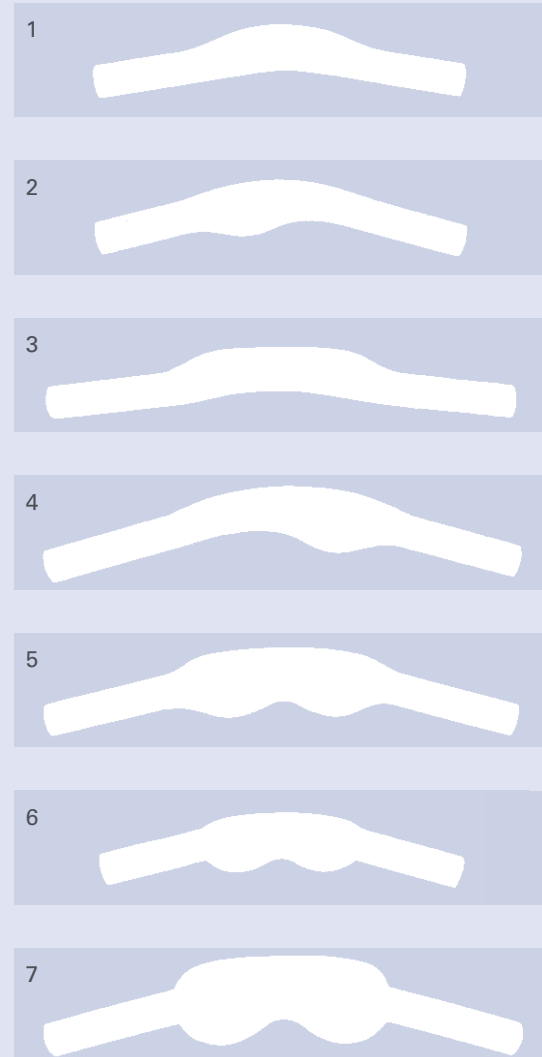
HAHNENKRATT matrixes and matrix bands are produced in various shapes. The stainless steel offers outstanding tensile strength.

Practical dispenser

for matrix bands on a roll. The top opening of the dispenser allows for easy sliding out of the matrix band, and if necessary, the band can also be easily pushed back into the dispenser.



Nyström 0,04 mm



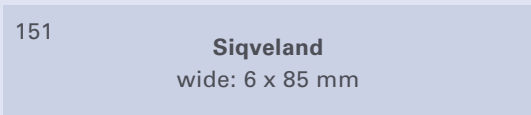
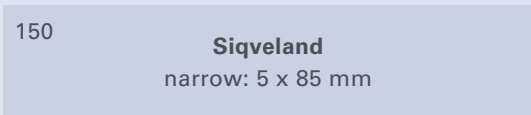
Drawings on a scale of 1:1

Matrixes

Ivory 0,04 mm



Tofflemire 0,04 mm



Matrixes



Matrixes 0,04 mm	REF						
box of 12	40X1	40X2	40X3	40X4	40X5	40X6	40X7
	40X11	40X12	40X13	40X14	40X15	40X16	
	40X101	40X102	40X103	40X113	40X150	40X151	
box of 100	41X1	41X2	41X3	41X4	41X5	41X6	41X7
	41X11	41X12	41X13	41X14	41X15	41X16	
	41X101	41X102	41X103	41X113	41X150	41X151	

Matrix bands in cardboard dispenser										
roll of 1m thickness in mm			width	roll of 3 m thickness in mm			width	roll of 10m thickness in mm		
0,03	0,04	0,05		0,03	0,04	0,05		0,03	0,04	0,05
10 134	10 144	10 154	4 mm	10 334	10 344	10 354	4 mm	10 034	10 044	10 054
10 135	10 145	10 155	5 mm	10 335	10 345	10 355	5 mm	10 035	10 045	10 055
10 136	10 146	10 156	6 mm	10 336	10 346	10 356	6 mm	10 036	10 046	10 056
10 137	10 147	10 157	7 mm	10 337	10 347	10 357	7 mm	10 037	10 047	10 057



Matrix Retainers

High-Quality Finish in Stainless Steel

Ergonomic handling

is achieved through a ball bearing mechanism of the screw, made of PEEK.

Rounded edges

minimize the risk of injury.

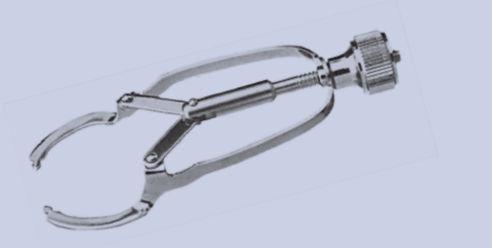
The matrix retainer

securely holds the ends of the matrix bands.



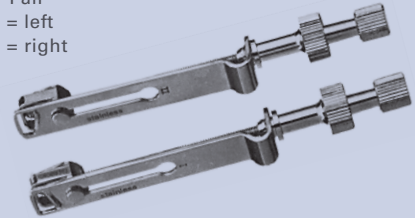
Nyström

REF 1



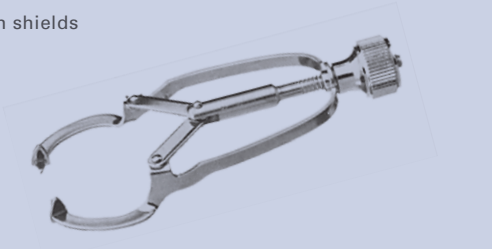
Nystöm-Form

REF 20: 1 Pair
REF 20XI: I = left
REF 20XII: II = right



Ivory-Form

REF 12 with shields



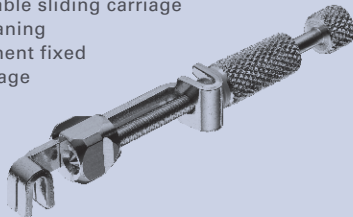
Ivory-Form

with protection shield
REF 8X5: Width 5
REF 8X6: Width 6
REF 8X7: Width 7



Tofflemire-Form Universal

REF 21 with removable sliding carriage
for easy cleaning
REF 25 with permanent fixed
sliding carriage



RIVETING WHEELS

While using riveting wheels no gold is removed.

For correction
of crowns with overhanging edges

For smoothing
porous castings

For riveting
of long pivoteeth



RIVETING WHEELS

REF 320

Ø 8



scale 1:1

REF 321

Ø 10



scale 1:1

REF 322

Ø 12



scale 1:1



PROTECT

The temporary crown

Free of nickel

For patients with metallic dental fillings (e.g. Amalgam, Gold) in their dentures, we recommend to use PROTECT Crowns REF 480X... with passivated, gold coloured oxide layer.

Economical and efficient

- time-saving, because there is no need to make an impression
- cost-saving, because of low material costs

Optimal fixation of the occlusion

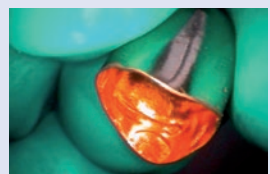
No harmful influence to the vitality of the pulpa

While using temporary composites, high temperature can occur which can be harmful for the pulpa. *)

Tested concerning biocompatibility according to ISO 10993

*) Literature: Scientific report in Quintessenz 51,4,349-356(2000)

While supplies last!



PROTECT



PROTECT Temporary Crowns	REF		
	Contents	silver coloured	gold coloured
64 Molars + 36 Bicuspid Assortment	100	368	483
Refill Please add size	4	360X...	480X...

Molars upper right	MOR	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Molars upper left	MOL	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Molars lower right	MUR	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Molars lower left	MUL	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Bicuspid upper	BO	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Bicuspid lower	BU	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29

Temporary Crowns are also available in the export-sizes 1-20.



PROVISA

The economical temporary solution

Both materials are soft and flexible.
The occlusion is shaped by the opposing bite.

Free of nickel

Economical and efficient

Time-saving because there is no need to make an impression and cost-saving, because of low material costs

Optimal fixation of the occlusion

No harmful influence to the vitality of the pulpa

While using temporary composites, high temperature can occur which can be harmful for the pulpa.*)

Tested concerning biocompatibility according to ISO 10993

*) Literature: Scientific report in Quintessenz 51,4,349-356(2000)

While
supplies
last!



PROVISA Shells



PROVISA Shells	REF		
	Contents	Aluminium Shells	Tin Shells
Plastic assortment	100	372	378
Cardboard assortment	100	371	
Refill Please add size	100	370X...	
Refill Please add size	10	374X...	382X...





E. HAHNENKRATT GMBH
Dental Medtech



Benzstraße 19
DE-75203 Königsbach-Stein

Fon +49 7232 3029-0

info@hahnenkratt.com
www.hahnenkratt.com

