

## **Schilli Implantology Circle Cooperation**



In commemoration:

Prof. Dr. Wilfried Schilli (1928 – 2019) founding member of the SIC – Schilli Implantology Cirle – has summed up the tasks and goals of SIC as well as implantology in general in a convincing manner in his welcoming words.

#### Dear Partners and Friends,

Implantology has changed dentistry. It is, like the surgical joint replacement, a product of modern bone surgery. In 1958, this was completely restructured by the Arbeitsgemeinschaft für Osteosynthese (AO = Association for the Study of Osteosynthesis). Their rules also apply to us: the biomechanical principles of function provide orientation, the vitality of the bone must be preserved. The aim is the most atraumatic surgical procedure possible.

Incorporation of an implant is a biological process, and we must provide the requirements for it to take place smoothly. Every detail of our approach is therefore important. The procedure is optimised and errors are avoided by providing clear surgical protocols. But despite all the schematic optimisation every case remains an individual case. This in particular applies to the subsequent prosthetic restoration. When prosthodontics cooperates with surgery, prosthodontics dominates as it determines the function and aesthetics.

The implant system plays a major role in this process which is influenced by the individual factors of the patient. It is a standard product not only from a technical point of view but also for legal reasons. In this case, continuous optimisation is also a prerequisite for lasting success.

This is one of the tasks of the SIC "Schilli Implantology Circle". The international, interdisciplinary discussion forum integrates current theoretical and scientific research results in the implementation of practice-relevant systems and synchronises them with practical experience.

Another function of the SIC "Schilli Implantology Circle" is also to pass on this success in the form of continuous training.

We are, as are the members of the circle, very enthusiastic about implantology and want to improve the process and product through discussions with competent specialists. Disadvantages and faults as well as possible improvements and prospects are discussed at regional and an international level and scientific investigations and checks are initiated. Organisation and trust are therefore prerequisites for ensuring that everyone profits from this approach and that we can provide our patients with even more reliable and better help.

Sincerely

Prof. Dr. Wilfried Schilli

Founding Member Schilli Implantology Circle

## **SIC invent Group**

Dear valued Partner,
Welcome to SIC invent!

#### Our company

SIC invent is a premium provider in the field of innovative implant-based tooth restorations. The company is headquartered in Basel, Switzerland. The production is in Germany. Products and services are available through subsidiaries and dealers in over 25 countries.

Our outstanding products and services result from the creative, inspiring and collegial collaboration with the SIC "Schilli Implantology Circle". An expert team of enthusiastic dentists, dental technicians and

engineers. We are never satisfied with what has already been achieved and do everything we can to continuously improve products and their application. In addition to innovations and user training, the success of our globally operating group of companies is based on our outstanding employees. We look forward to offering you and your team the best products and solutions for treating your patients.



Your very personal and individual requirement for products, service and training is our highest priority.

#### **Our history**

One of the pioneers in the development of osteosynthesis screws for craniomaxillofacial surgery, dental implantology and their applications, is my father **Professor Dr. Wilfried Schilli.** His experience of more than 60 years in this field of medicine, dentistry, research and teaching is the cornerstone and foundation for the SIC "Schilli Implantology Circle". It was only through his fundamental and broad knowledge that I was then able to start this venture which is now being carried on by many worldwide practicing colleagues together with the highly professional and dedicated SIC invent team.

The SIC "Schilli Implantology Circle" is an international network of key opinion leaders (KOL) and clinicians using the SIC system. We continually organize task forces in research and training of physicians and dental technicians to ensure the highest level of technology, scientific evidence-based background and patient outcomes.

All of our systems and components have been created in collaboration with the members of the SIC "Schilli Implantology Circle" and before they are finally incorporated into our implant systems, they receive the necessary evidence through studies and application observations at leading universities, clinics, practices and dental laboratories both within and outside the SIC network. The members of SIC and SIC invent AG stand for the highest degree of innovation and quality of our product line and supply concepts worldwide. At this point, I would like to express my gratitude to all of our SIC members. Without this "think tank", it would not be possible to attain

our product and training portfolio at such a premium level.

#### In equal mission

In 2018, SIC invent AG acquired the P-I Brånemark implant systems | pibranemark.com. P-I product lines, produced in a high-quality in-house manufacturing facility, were developed by **Professor Per-Ingvar Brånemark**, jointly with experienced clinicians and scientists, reflecting the pinnacle of his research and knowledge over many years.

P-I solutions are contributing to the SIC invent Group by addressing selected markets, complementing portfolios, further expanding presence and growth. **Professor Per-Ingvar Brånemark** and **Professor Wilfried Schilli** had the same vision and mission for over 50 years, and it gives me great pleasure to provide, through the SIC invent Group, a singular platform for continued developments.

#### Our philosophy and task

Our mission is to offer top of the line products and solutions for all indications by providing a simplified system with less components, with the ultimate goal of reducing the time and thus treatment costs for the patient while maintaining outstanding clinical outcomes.

Thank you for the confidence and trust you have placed in us, and I look forward to our collaboration.

Sincerely Georg Schilli

President of the Supervisory Board Chief Executive Officer

SIC invent AG

Implants	p. 10
Implants Internal Hex	p. 10
Implants Conical Interface	p. 11
Standard Surgery	p. 12
SIC Surgical Trays	p. 12
SIC Drills	p. 13
SIC Surgical Accessories	p. 16
SIC Insertion Tools	p. 18
SIC Guided Surgery	p. 22
SIC Guided Surgery Trays	p. 22
SIC GS Drill Systems	p. 23
SIC GS Insertion Tools	p. 24
SIC GS Surgical Accessories	p. 25

Penguin <sup>RFA</sup>	p. 26
Biomaterials	p. 27
Bone replacement material	p. 27
Membrane	p. 28

## **System Overview**

One single surgical set-up

– high surgical
flexibility

**Implants** 

# **Internal Hex** SICace<sup>®</sup> SICmax<sup>®</sup> **SICtapered Marking-Drill Extension Drills** with Depth Stop or Short Drills **Conical Interface Reamer** SICvantage® max for SICace Short Implants only SICvantage® tapered

**Drills** 

Crestal Drills

Same surgical tools

## **System Overview**

One single surgical set-up

SIC Standard

Two different Implant-Abutment Connections





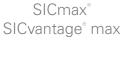
Internal Hex	Conical Interface
SICace® SICmax®	SICvantage® max
SICtapered	SICvantage® tapered





Three complementary implant solutions for high chairside flexibility

SICace®



SICtapered SICvantage® tapered

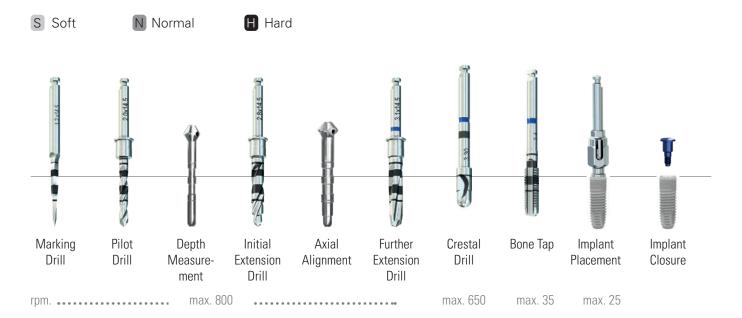






## **Drilling Protocols**

Drill	2.0 mm	2.8 mm	3.1 mm	3.25 mm	3.75 mm	4.25 mm	4.6 mm	Crestal Drill	optional Bone taps
Implant							O		A
3.0 mm	~	~							3.0 mm
3.4 / 3.7 mm	~	✓ S	N					<b>✓</b> (3.3 mm)	3.4 mm
0 4.0 / 4.2 mm	~	~	✓ S	N				<b>√</b> (3.75 mm)	4.0 mm
4.5 / 4.7 mm	~	•		✓ S	N			<b>√</b> (4.25 mm)	4.5 mm
5.0 / 5.2 mm	~	~		~	✓ S	N		<b>✓</b> (4.75 mm)	5.0 mm



### **Drilling Protocol for SICace®6.0 mm short implants**

F	Drill	2.0 mm	2.8 mm	3.1 mm	3.25 mm	3.75 mm	Reamer
OA 5	Implant			0	0	0	
	4.0	V	~	~			~
W	4.5	~	~		~		~
M	5.0	V	V		<b>V</b>	<b>V</b>	~



#### SICace Screw Implants incl. Cover Screw

-	Implant Ø	Prosthetic connection	Geometry of the connection	6.0 mm* Length	7.5 mm Length	9.5 mm Length	11.5 mm Length	13.0 mm Length	14.5 mm Length
	3.4 mm	3.3 mm			935182	935170	935171	935172	935173
	4.0 mm	3.3 mm	Inner	935140	935183	935174	935175	935176	935177
雪	4.5 mm	4.2 mm	Hex 2.3	935141	935150	935151	935152	935153	935154
	5.0 mm	4.2 mm		935142	935184	935178	935179	935180	935181

<sup>\*</sup>Please consider the differing drilling protocol on page 9

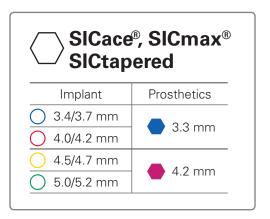
#### SICmax Screw Implants incl. Cover Screw

	Implant Ø	Prosthetic connection	Geometry of the connection	6.0 mm Length	7.5 mm Length	9.5 mm Length	11.5 mm Length	13.0 mm Length	14.5 mm Length
	3.7 mm	3.3 mm			935270	935271	935272	935273	935274
	4.2 mm	3.3 mm	Inner	935265	935275	935276	935277	935278	935279
1	4.7 mm	4.2 mm	Hex 2.3	935266	935285	935286	935287	935288	935289
	5.2 mm	4.2 mm		935267	935280	935281	935282	935283	935284

#### SICtapered Screw Implants incl. Cover Screw

	Implant Ø	Prosthetic connection	Geometry of the connection	7.5 mm Length	9.5 mm Length	11.5 mm Length	13.0 mm Length	14.5 mm Length
	3.7 mm	3.3 mm		935371	935372	935373	935374	935375
	4.2 mm	3.3 mm	Inner	935377	935378	935379	935380	935381
霍	4.7 mm	4.2 mm	Hex 2.3	935383	935384	935385	935386	935387
書	5.2 mm	4.2 mm		935389	935390	935391	935392	935393

# Implant-Abutment-Connections





## **Conical Interface**

## $\textbf{SICvantage}^{\text{@}} \textbf{max} \text{ Screw Implants incl. Cover Screw}$

	Implant Ø	Prosthetic connection	Geometry of the connection	7.5 mm Length	9.5 mm Length	11.5 mm Length	13.0 mm Length	14.5 mm Length
	3.0 mm	2.2 mm			950163	950164	950165	950166
	3.7 mm	2.5 mm 🔘		950172	950173	950174	950175	950176
	4.2 mm	2.9 mm 🔘	Morse Taper	950182	950183	950184	950185	950186
	4.7 mm	2.9 mm 🔘		950192	950193	950194	950195	950196
-	5.2 mm	2.9 mm 🔘		950202	950203	950204	950205	950206

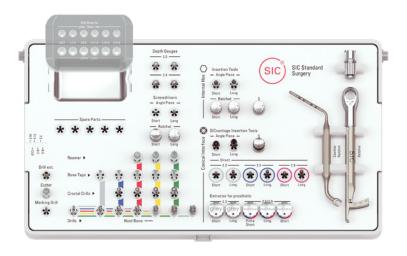
### SICvantage tapered Screw Implants incl. Cover Screw

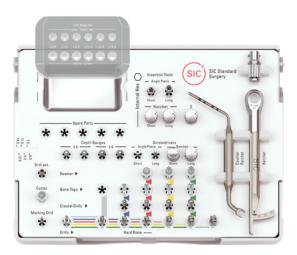
_	Implant Ø	Prosthetic connection	Geometry of the connection	7.5 mm Length	9.5 mm Length	11.5 mm Length	13.0 mm Length	14.5 mm Length
	3.0 mm	2.2 mm 🔘			951360	951361	951362	951363
	3.7 mm	2.5 mm (a)	_	951371	951372	951373	951374	951375
	4.2 mm	2.9 mm 🔘	Morse Taper	951377	951378	951379	951380	951381
書	4.7 mm	2.9 mm 🔘	-	951383	951384	951385	951386	951387
	5.2 mm	2.9 mm (in)	_	951389	951390	951391	951392	951393

# Implant-Abutment-Connections

	SICvant SICvant	age® max age® tapered
	Implant	Prosthetics
0	3.0 mm	② 2.2 mm
0	3.7 mm	② 2.5 mm
0	4.2 mm	
0	4.7 mm	<b>②</b> 2.9 mm
0	5.2 mm	

## SIC Surgical Trays

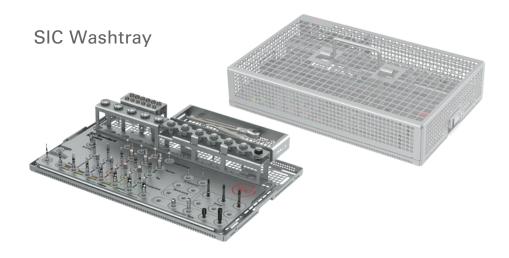




935516		SIC Surgical Tray, universal, empty
935517		SIC Surgical Tray, small, empty
935514		SIC Surgical Tray, Washtray, empty
935513		SIC Surgical Tray, Guided Surgery, Washtray, empty
933105	$\bigcirc$	SIC Surgical Tray with Titanium Ratchet, equipped
933107	$\bigcirc$	SIC Surgical Tray with Titanium Ratchet, small, equipped for SIChex connection
933106		SIC Surgical Tray with Titanium Ratchet, equipped for SIChex and SICvantage® connection
951705	0	SICvantage® Surgical Tray with Titanium Ratchet, equipped
933112	$\bigcirc$	SIC Surgical Tray, Washtray, equipped
933113		SIC Surgical Tray, Washtray, equipped for SIChex and SICvantage® connection
951706	<b>6</b>	SICvantage® Surgical Tray, Washtray, equipped

 $\bigcap \mathsf{Internal}\;\mathsf{Hex}$ 

Conical Interface



## SIC Drills

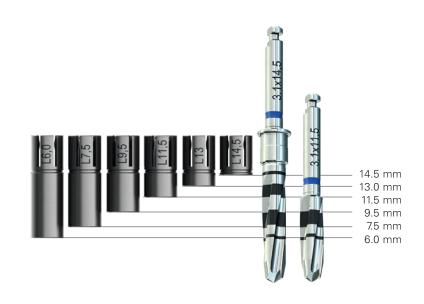


Please note: Only to be used with implant lengths up to 11.5 mm.

### Drills for Depth Stop Length 34.0 mm

2.0 mm	2.0/2.5/2.8 mm	3.10 mm	3.25 mm	3.75 mm	4.25 mm	4.6 mm
Topics (	THE TOTAL THE TO					
	"Smart Drill"					
935214	935215	935216	935217	935220	935218	935221

Short and long drills with depth stop



### Depth Stops for Drills up to $\emptyset$ 3.25 mm

Diameter 4.7 [mm]				Canal		
for Implant Length [mm]	6.0	7.5	9.5	11.5	13.0	14.5
Specific height/length [mm]	13.9	12.4	10.4	8.4	6.9	5.4
	935245	935246	935247	935248	935249	935250

### Depth Stops for Drills up to $\emptyset$ 4.6 mm

Diameter 5.7 [mm]		T NA				
for Implant Length [mm]	6.0	7.5	9.5	11.5	13.0	14.5
Specific height/length [mm]	13.9	12.4	10.4	8.4	6.9	5.4
	935256	935251	935252	935253	935254	935255

## Compatibility of Depth Stops

	Diameter [mm]	2.0	2.0/2.5/2.8	3.1	3.25	3.75	4.25	4.6
KERS	Depth stop without marking	935214	935215	935216	935217			
1115	Depth stop with marking yellow					935220	935218	935221

## Brackets for Depth Stops



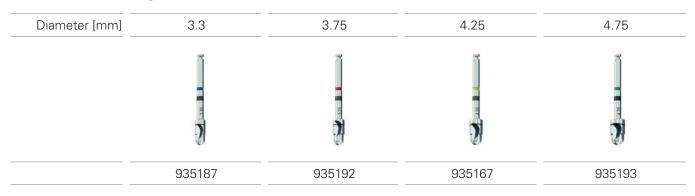
equipped 935512



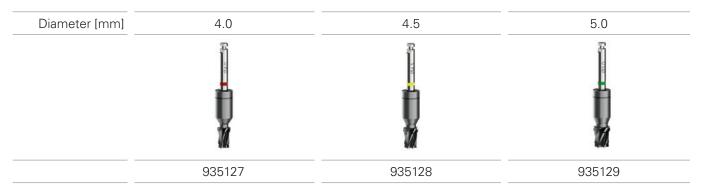
empty

935511

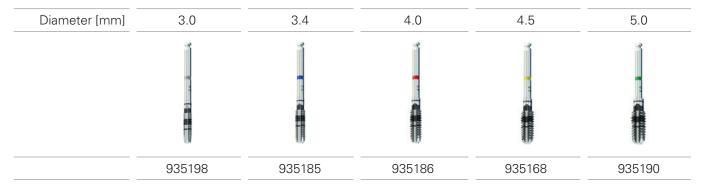
#### Crestal Drills Length 31.0 mm



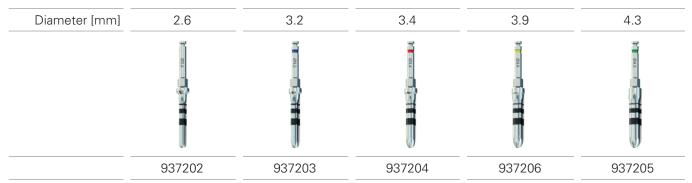
#### Reamer for SICace Length 6.0 mm



#### Bone Taps Length 34.0 mm



### $Bone\ Condenser\ {\it by\ Dr.\ A.\ Weidmann}$





Handle for SIC Bone Condenser 937200



SIC Bone Condenser Set Consisting of Tray, Handle, 5 inserts

937220

## SIC Surgical Accessories

### Gingiva Punch "Safety Punch", Length 20.5 mm





SIC Probe for Gingiva Punch, universal

937323



SIC Drill extension 935212



SIC Cutter Ø 5.2 mm for SIC "Safe on Four", with Guidance Tip

SIC Dental Implant

Pass, 20 pieces

935230

SIC Counter Ratchet with "Easy Handle"

937122



SIC X-Ray Balls Ø 5.0 mm, 10 pieces

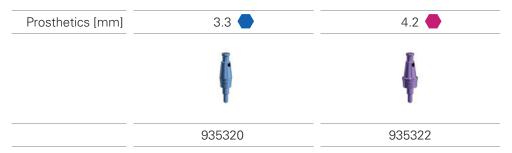
935351



Z9913



### Distance Control "Surgery"





SIC X-Ray Positioning Device SICmax°, SICvantage° max 1.25:1 and 1:1

935008



SIC X-Ray Positioning Device SICtapered, SICvantage® tapered 1.25:1 and 1:1

935006



SIC X-Ray Positioning Device SICace\*, 1.25:1 and 1:1

935007

#### SIC Crestotom



Crestal profiler for the alignment of uneven crestal bone structures

935203

## SIC Insertion Tools Surgery



SIC TR Insertion Tool S, short



For Internal Hex only SICace, SICmax, SICtapered

937109

### Insertion Tools, Angle Piece

Length [mm]	20.0	28.0
		long
		4





937113 937112

Also usable with SIC Multi-Unit Abutment, straight.

#### **TR Insertion Tools**

Length [mm]	22.5	32.5
	"direct", short	"direct", long
	937102	937103



SICvantage®TR Insertion Tool S, short

951613



## SICvantage® Insertion Tools, Angle Piece

Length [mm]	20.0	28.0 long
	951615	951614

Also usable with SICvantage® Multi-Unit Abutment, straight.

### SICvantage® Insertion Tools, "direct"

Prosthetics [mm]	2.2 🔘	2.5 🔘	2.9
Length 30.5 mm	951620	951621	951622
Length 22.5 mm	951624	951625	951626

#### SICvantage® Extractor for prosthetics

Prosthetics [mm]	2.	2 🔘		2.5/2.9 mm 🔘 🧔	
	The party of			The part of	
	short	long	extra short	short	long
	951616	951617	951623	951618	951619

### TR Screwdrivers

Length [mm]	17.0	25.0	32.5
	extra short, hex 1.2 mm	short, hex 1.2 mm	long, hex 1.2 mm
		V	
	937130	937128	937129

## Screwdriver, Angle Piece

Length [mm]	5.0	15.0
	"direct", short	"direct", long
	937032	937031



#### Elos Torque Wrench Kit SIC

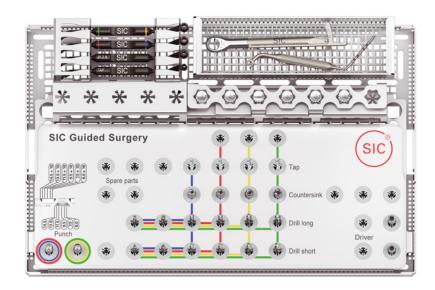
#### C9297

Manufacturer: Elos Medtech Pinol A/S





## SIC Guided Surgery

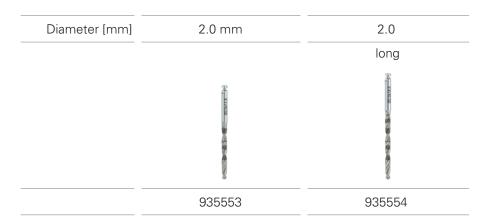


935513		SIC Surgical Tray, Guided Surgery, Washtray, empty
933111	$\bigcirc$	SIC Surgical Tray, Guided Surgery, Washtray, equipped
933114		SIC Surgical Tray, Guided Surgery, Washtray, equipped for HEX and SICvantage®
951707	0	SICvantage <sup>®</sup> Surgical Tray, Guided Surgery, Washtray, equipped

Conical Interface

## SIC GS Drill Systems

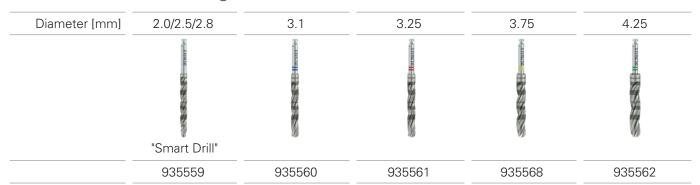
#### **GS Pilot Drill**



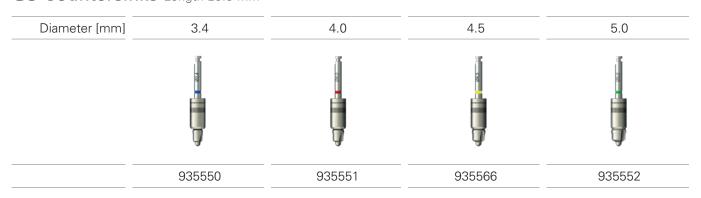
#### GS Extension Drills Length 35.5 mm



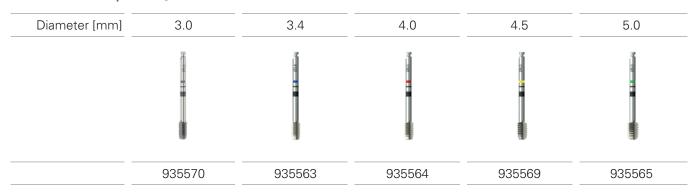
#### GS Extension Drills, long Length 40.0 mm



#### GS Countersinks Length 29.5 mm



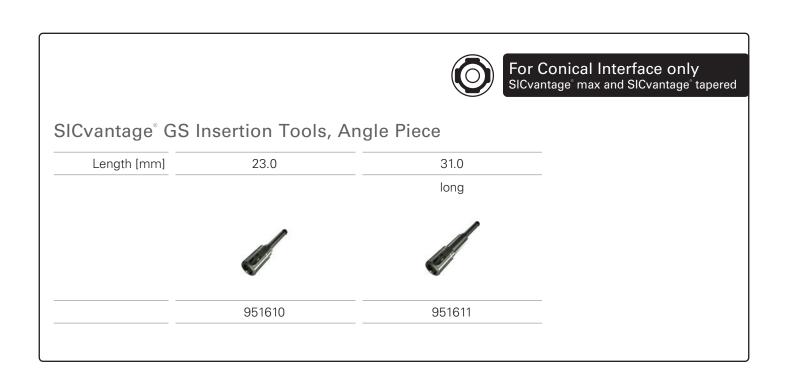
#### GS Bone Taps Length 35.5 mm



## SIC GS Insertion Tools

### GS Insertion Tools, Angle Piece

Length [mm]	23.0	28.0
		long
	937115	937114



## SIC GS Surgical Accessories

### GS Gingiva Punches

Diameter [mm]	4.2	5.2
	A	
	£3/	
	937154	937155

### $\textbf{GS Drill Keys} \ \text{for sleeve} \ \emptyset \ 5.2 \ \text{mm}$

Diameter 1 [mm]	2.0, Sleeve Ø 3.1 mm	2.0	3.10	3.75
Diameter 2 [mm]	2.4 (Tap), Sleeve Ø 5.2 mm	2.8	3.25	4.25



935580 935581 935582 935583
-----------------------------

#### **GS** Sleeves

Diameter [mm]	3.1	5.2
Outer diameter [mm]	4.0	6.0
	935590	935591



SIC GS Fixation Post, for Sleeve Ø 5.2 mm

935592

## **Penguin**<sup>RFA</sup>

## Monitor osseointegration

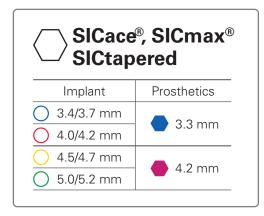


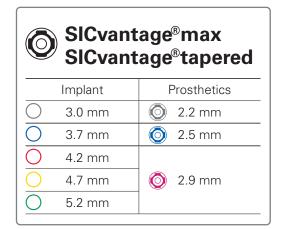
### $MulTipeg^{\text{\tiny TM}}$

55052	<b>SICace</b> 3.4 − 5.0 mm	Penguin MulTipeg™ 44
55052	SICmax, SICtapered 3.7 – 5.2 mm	Penguin MulTipeg™ 44
55026	SICvantage* max, SICvantage* tapered 3.0 mm	Penguin MulTipeg™ 17
55116	SICvantage* max, SICvantage* tapered 3.7 mm	Penguin MulTipeg™ 82
55054	SICvantage* max, SICvantage* tapered 4.2 – 5.2 mm	Penguin MulTipeg™ 46
55046	P-I Brånemark MT 3.3 – 4.8 mm	Penguin MulTipeg™ 38
55086	SICwhite, Zeramex	Penguin MulTipeg™ 78
55120	SIC Safe on Four	Penguin MulTipeg™ 86

Find detailed information about the Penguin<sup>RFA</sup> on our website: www.sic-invent.com/penguin

## Overview Implant-Connection





## **Biomaterials**

## Bone replacement material

SICbio graft™

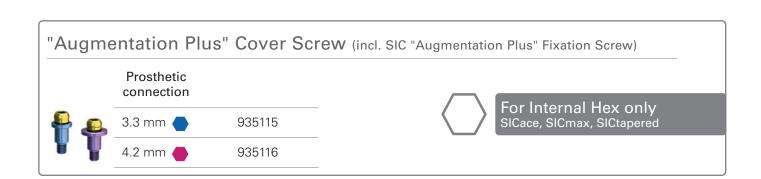


#### Material:

Bioresorbable bone replacement material made of β-tricalcium phosphate for oral and maxillofacial surgery

Size	1 x 0.5 ml	1 x 0.5 ml	1 x 1.0 ml	1 x 0.5 ml	1 x 1.0 ml
	(granule size				
	0.2 – 0.5 mm)	0.5 – 1.0 mm)	0.5 – 1.0 mm)	1.0 – 2.0 mm)	1.0 – 2.0 mm)
	510105	510115	510111	510125	510121

Manufacturer: Biovision GmbH



## Membrane

#### SICmeso Guard<sup>®</sup> Dental Membrane



#### Material:

Native collagen membrane from porcine mesothelium of peritoneal origin

Size	15 x 20 mm	20 x 30 mm
	530015	530020

Manufacturer: DSM Biomedical

## Membrane pins

### SICbio pin™



#### Material:

Bioresorbable SICbio pin is made of poly(L-co-D,L- lactate 70/30)

2 Bioresorbable Membrane Pins	
510130	

Manufacturer: Biovision GmbH

### Equipment

PL0113	Tray (empty)
PL0114	Drill 0.8 mm
PL0115	Drill 0.9 mm
PL0116	Drill Template
PL0117	Probe, angulated
PL0131	Probe, straight
PL0119	Dispenser
PL0120	Mallet
PL0126	Applicator, Head straight
PL0127	Applicator, Head angulated
PL0128	Applicator Handle
PL0130	Complete Kit
935530	SICbio Organizer, empty
933120	SICbio Organizer, equipped

## Labels and Packaging





Notes	



#### Headquarters:

#### SIC invent AG

Birmannsgasse 3 4055 Basel, Switzerland Tel.: +41 61 260 24 60 contact.switzerland@sic-invent.com

#### **SIC invent Deutschland GmbH**

Willi-Eichler-Str. 11 37079 Göttingen, Germany Tel.: +49 551 504 29 40 contact.germany@sic-invent.com

#### **SIC invent Austria GmbH**

Kohlmarkt 7/Stg. 2/58 1010 Wien, Austria Tel.: +43 1 533 70 60 contact.austria@sic-invent.com

#### **SIC** invent Asia-Pacific Inc.

1F, 90, Banpo-daero, Seocho-gu, Seoul 06649, Republic of Korea Tel.: +82 2 585 9700 contact.korea@sic-invent.com

#### SIC invent ShangHai Limited

Office 721, Building 2-1, German Business Center No. 88, Keyuan Road, Zhangjiang Hi-Tech Park 201203 Shanghai / PR China Tel.: +86 21 5855 0126 contact.china@sic-invent.com

#### SIC invent North America Inc.

contact.usa@sic-invent.com

www.sic-invent.com

