Implants from Implantologists

Schilli
Implantology
Circle

SIC®

SIC Implants
with Locator® Abutments

07/2010

SIC Schilli Implantology Circle

Philosophy

Prof. Dr. med.
Wilfried Schilli

The SIC – Schilli Implantology Circle – was founded by Prof. Dr. med. Wilfried Schilli. SIC is an association of surgeons, dentists and technicians recognized throughout the world for their competence in the field of dental implantology.

Based on their profound practical experience the SIC invent AG develops – in systematic cooperation with the SIC – dental implant systems, biomaterials and accessories that reflect the latest science based technologies and clinical requirements.

The exchange of experience between colleagues and feedback received from users are the sources in which continuous and efficient development of devices can be offered with competitive pricing.

SIC Implants with Locator® abutments

Schilli Implantology Circle SIC®

Product Description

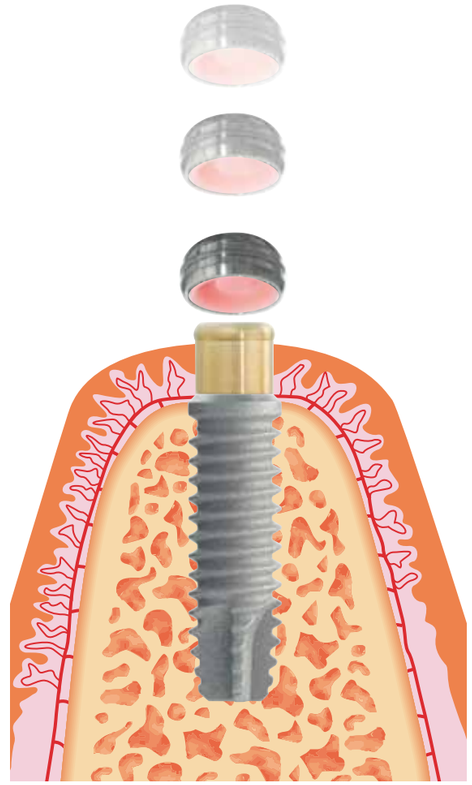
Reliable
Optimal connection due to dual retention. The high abrasion resistance of the components ensures permanent functionality.

Simple
The self-locating design of the Locator® components enables the denture to be easily fitted and removed by the patient. The Locator® retention inserts are easily exchanged, if required, using the Locator® instrument.

Flexible
Locator® components can be used with implant axis divergences of up to 40°. Prosthetic restoration of implants is also possible in the case of reduced occlusal space due to the minimal vertical height.

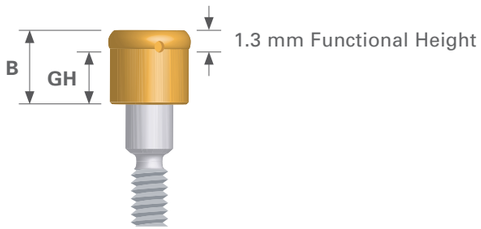
Indications
Locator® components are intended for use with dentures that are retained only on endosseous implants in the maxilla or mandible.

Contraindications
Locator® components are unsuitable for fixed-removable, tooth-implant supported and retained dentures. If there is an implant divergence greater than 40°, Locator® components cannot be used.



Locator® Allocation Table

	Item No.	Measurement B	GH
Ø 3.3 mm	935702	1.5 mm	0
	935710	2.5 mm	1
	935703	3.5 mm	2
	935711	4.5 mm	3
	935704	5.5 mm	4
	935708	6.5 mm	5
Ø 4.2 mm	935705	1.5 mm	0
	935712	2.5 mm	1
	935706	3.5 mm	2
	935713	4.5 mm	3
	935707	5.5 mm	4
	935709	6.5 mm	5



Fabrication of a new full denture

Schilli Implantology Circle SIC®

Handling

The general, currently valid planning guidelines for implant-retained, combined tissue-implant-supported, removable prosthetic restorations should be observed.
In the mandible the aim is to ensure that the restoration is supported on a minimum of two anterior implants that are as symmetrical as possible and have a sufficient interimplant gap.
A minimum of 4 implants are required in the maxilla.
The functional stability of the denture retained on 4 or more Locators can only be guaranteed with optimal large area, symmetrical, polygonal support.

The height of the Locator® is selected according to the gingival height.

First, insert the Locator® abutment into the implant manually using the Locator® insertion tool. Then fix the abutment in position using the torque ratchet and Locator® insertion tool with a tightening torque of approx. 15 – max. 20 Ncm.

Place the Locator® impression posts on the Locator® abutments for taking the impression.

Handling

Take the impression using a closed tray. Then insert the Locator® lab implants into the Locator® impression posts for fabricating the model.

Fabricate the master model in the usual way. Place the white polymerisation aids (silicone) on the Locator® abutments.

Then place the matrix housing on the Locator® lab implants. The processing inserts fix the matrices in position on the lab implant, ensuring optimal stability.

Fabricate the denture using the standard technique.

After the denture is finished and polished, remove the black processing inserts from the matrix housing using the Locator® tool and replace them with the corresponding Locator® retention inserts.

Then fit the finished denture and check the occlusion.

Alternatively the impression can be taken using the standard transfer abutments at implant level. When using this technique the relevant Locator® abutments are selected by the dental technician. The standard lab implants are then used for the master model.

Converting an existing mandibular full denture

into a fixed denture on Locator® abutments with simultaneous relining

Handling

The height of the Locator® is selected according to the gingival height.

First, insert the Locator® abutment manually into the implant using the gold-coloured end-piece of the Locator® tool. Then fix the abutment in position using the torque ratchet and Locator® tool with a tightening torque of approx. 15–max. 20 Ncm.

Place the white polymerisation aids (silicone) on the Locator® abutments. Fit the matrix housings, which have been fitted with the black processing inserts, on the Locator® abutments.

Relieve the existing denture in the area of the Locator® matrix housing and drill a hole lingually at each Locator® for pouring the denture acrylic. Then insert the denture in the mouth and check the fit.

Important: The matrix housings fixed on the secondary units should not come into contact with the denture.

Polymerising the matrix housing into the denture

Handling

Pour denture acrylic into the connecting holes from the lingual to retain the matrix in the denture. Light-curing or cold-curing acrylic can be used for this.
After curing, remove any excess acrylic and polish the denture.

Note:
If the white Locator® polymerisation aids (silicone) do not completely fill the space between the gingiva and matrix housings, any remaining undercuts must be blocked out to prevent acrylic flowing under the matrix housing.
For example, the undercut can be blocked out by placing several polymerisation aids (silicone) on top of one another.

After the acrylic has cured, take the denture out of the mouth and remove the white Locator® polymerisation aids (silicone) and any excess acrylic.

After the denture base has been polished, replace the black processing inserts with the corresponding Locator® retention inserts.

Then insert denture in the mouth and check the occlusion.

Application of the three-part Locator® tool

Handling

The three-part Locator® instrument is a multifunctional tool, which has a tip, mid-section and end-piece with different functions.

Gold-coloured end-piece
The gold-coloured end-piece of the Locator® tool is used for inserting and removing the Locator® attachment in the implants or lab implants.

Mid-section
The mid-section of the Locator® tool is used for fitting the retention inserts into the matrix housing. The tip must be completely unscrewed from the mid-section for fitting the inserts. The retention insert is pressed into the matrix housing using the end of the mid-section. An audible clicking sound indicates when the insert is fully retained in the matrix housing.

Tip
The tip is used for removing the retention insert from the matrix housing.

Technique for removing the retention inserts
To remove the retention inserts, the tip should be loosened from the mid-section by turning it fully twice until there is a visible gap between the tip and the mid-section.

The tip is then inserted vertically into the matrix housing and pulled out in the opposite direction with the attached retention insert from the matrix housing.

To remove the retention insert from the Locator® instrument, the tip should be fully retightened by turning it clockwise onto the mid-section. This activates the removal pin inside the tip and detaches the retention insert.

Application of the Locator® inserts

Schilli Implantology Circle SIC®

Handling

The Locator® matrix housing is supplied with a pre-assembled, black processing insert, which functions as a spacer for the different Locator® retention inserts.

The processing insert is replaced by the corresponding Locator® insert after fabrication of a Locator® retained denture.

When relining Locator® supported dentures, the Locator® retention inserts should be removed from the matrix housing prior to taking the impression and replaced with black processing inserts. After the denture has been relined and finished, new original retention inserts should be fitted into the matrix housing.

Selection of the Locator® retention inserts
The aim is to ensure that the Locator® retained denture is as easy as possible for the patient to handle.

Retention insert, clear, pink, blue, dual retention
When the denture is retained on two or more Locator® attachments, we recommend initial use of the blue or pink Locator® retention insert. When using the dual retention inserts, the maximum permitted divergence of the Locator® abutments is 20°. The retention insert is selected according to the amount of anchorage or retention force required for the individual case.

Inserts are available with the following withdrawal forces:

clear with standard retention force (2.3 kg, item number: 935718)

pink with low retention force (1.4 kg, item number: 935719)

blue with extra-low retention force (0.7 kg, item number: 935724)

Retention insert, green, orange, red, extended range of application
The Locator® retention inserts for an extended range of applications are used if there are implant axis divergences greater than 20° to 40°.

The following Locator® retention inserts are available:

green with standard retention force (1.8 kg, item number: 935720)

orange with low retention force (0.9 kg, item number: 935725)

red with extra-low retention force (0.5 kg, item number: 935721)

Retention insert, grey

The grey insert without retention is used for long-term treatment and protecting temporary Locator® abutments, which have not been incorporated into the retention of the restoration.

Schilli Implantology Circle

Locator® Attachments

SIC Locator® Attachments

for SICace Ø 3.4 mm Ø 4.0 mm

935702 
Locator® Attachment
Ø 3.3 mm, GH 0.0 mm, incl. Set 935717
Diameter implant connection [mm] 3.3
Gingival height [mm] 0.0
Material Titanium Grade 5 and TIN
Compatible with [mm] SICace 3.4 and 4.0

935710 
Locator® Attachment
Ø 3.3 mm, GH 1.0 mm, incl. Set 935717
Diameter implant connection [mm] 3.3
Gingival height [mm] 1.0
Material Titanium Grade 5 and TIN
Compatible with [mm] SICace 3.4 and 4.0

935703 
Locator® Attachment
Ø 3.3 mm, GH 2.0 mm, incl. Set 935717
Diameter implant connection [mm] 3.3
Gingival height [mm] 2.0
Material Titanium Grade 5 and TIN
Compatible with [mm] SICace 3.4 and 4.0

935711 
Locator® Attachment
Ø 3.3 mm, GH 3.0 mm, incl. Set 935717
Diameter implant connection [mm] 3.3
Gingival height [mm] 3.0
Material Titanium Grade 5 and TIN
Compatible with [mm] SICace 3.4 and 4.0

935704 
Locator® Attachment
Ø 3.3 mm, GH 4.0 mm, incl. Set 935717
Diameter implant connection [mm] 3.3
Gingival height [mm] 4.0
Material Titanium Grade 5 and TIN
Compatible with [mm] SICace 3.4 and 4.0

935708 
Locator® Attachment
Ø 3.3 mm, GH 5.0 mm, incl. Set 935717
Diameter implant connection [mm] 3.3
Gingival height [mm] 5.0
Material Titanium Grade 5 and TIN
Compatible with [mm] SICace 3.4 and 4.0

for SICace Ø 5.0 mm

935705 
Locator® Attachment
Ø 4.2 mm, GH 0.0 mm, incl. Set 935717
Diameter implant connection [mm] 4.2
Gingival height [mm] 0.0
Material Titanium Grade 5 and TIN
Compatible with [mm] SICace 5.0

935712 
Locator® Attachment
Ø 4.2 mm, GH 1.0 mm, incl. Set 935717
Diameter implant connection [mm] 4.2
Gingival height [mm] 1.0
Material Titanium Grade 5 and TIN
Compatible with [mm] SICace 5.0

935706 
Locator® Attachment
Ø 4.2 mm, GH 2.0 mm, incl. Set 935717
Diameter implant connection [mm] 4.2
Gingival height [mm] 2.0
Material Titanium Grade 5 and TIN
Compatible with [mm] SICace 5.0

935713 
Locator® Attachment
Ø 4.2 mm, GH 3.0 mm, incl. Set 935717
Diameter implant connection [mm] 4.2
Gingival height [mm] 3.0
Material Titanium Grade 5 and TIN
Compatible with [mm] SICace 5.0

935707 
Locator® Attachment
Ø 4.2 mm, GH 4.0 mm, incl. Set 935717
Diameter implant connection [mm] 4.2
Gingival height [mm] 4.0
Material Titanium Grade 5 and TIN
Compatible with [mm] SICace 5.0

935709 
Locator® Attachment
Ø 4.2 mm, GH 5.0 mm, incl. Set 935717
Diameter implant connection [mm] 4.2
Gingival height [mm] 5.0
Material Titanium Grade 5 and TIN
Compatible with [mm] SICace 5.0

Locator® Accessoires

SIC Locator® Accessoires

935714
Locator® Tool, 3-part
Material Titanium Grade 5 and TIN
Compatible with all Locator® Attachments

for SICace Ø 3.4 mm Ø 4.0 mm Ø 5.0 mm

935715 
Locator® Impression Post
Material Titanium Grade 4
Compatible with all Locator® Attachments

935716 
Locator® Lab Implant
Material Titanium Grade 4
Compatible with all Locator® Attachments

935717 
Locator® Matrix Set, 5-part
Material Nylon
Compatible with all Locator® Attachments

935718 
Locator® Replacement Male, 4 pcs., clear
Retention force [kg] 2.3
Material Nylon
Compatible with all Locator® Attachments

935719 
Locator® Replacement Male, 4 pcs., pink
Retention force [kg] 1.4
Material Nylon
Compatible with all Locator® Attachments

935724 
Locator® Replacement Male, 4 pcs., blue
Retention force [kg] 0.7
Material Nylon
Compatible with all Locator® Attachments

935720 
Locator® Replacement Male, extended application, 4 pcs., green
Retention force [kg] 1.8
Material Nylon
Compatible with all Locator® Attachments

935725 
Locator® Replacement Male, extended application, 4 pcs., orange
Retention force [kg] 0.9
Material Nylon
Compatible with all Locator® Attachments

935721 
Locator® Replacement Male, extended application, 4 pcs., red
Retention force [kg] 0.5
Material Nylon
Compatible with all Locator® Attachments

935723 
Locator® Replacement Male, no retention, 4 pcs., grey
Material Nylon
Compatible with all Locator® Attachments

935722 
Locator® Insertion Tool, Angle Piece
Material stainless steel for surgical devices
Compatible with all Locator® Attachments

Implants from Implantologists

Schilli Implantology Circle

SIC invent Deutschland GmbH
Bühlstraße 21
D-37073 Göttingen
Tel.: 0800 742 46 83 68
Fax: 0800 74 23 29 38
contact.germany@sic-invent.com

SIC invent AG
Birmannsgasse 3
CH-4055 Basel
Tel.: +41 (0)61 261 39 66
Fax: +41 (0)61 261 39 68
contact.switzerland@sic-invent.com

SIC invent Austria GmbH
Kohlmarkt 7/Stg. 2/58
A-1010 Wien
Tel.: +43 (0)1 533 70 60
Fax: +43 (0)1 533 70 60 50
contact.austria@sic-invent.com

SIC invent North America Inc.
509 Madison Avenue
Suite 21–11
New York, NY 10022, USA
Tel.: +1 646 328 07 77
contact.usa@sic-invent.com

SIC invent Korea Inc.
501, 513-32 bunji, Amsa-Dong,
Kangdong-gu, Seoul 134-877, Korea (ROK)
Tel.: +82 (0)2 481 38 71
Fax: +82 (0)2 429 38 92
contact.korea@sic-invent.com

www.sic-invent.com

Edition International