

ISY KONE 2.9
GUIDE GUIDE

btk  Implanting Trust,
Smile Again!

IMPLANT LINE
ISY KONE
2.9
PINK COLLAR



DENTAL IMPLANTS 2.9mm
NATURAL AESTHETICS
AND MAXIMUM VERSATILITY

btk.dental

FOLLOW US ON 

ISY KONE 2.9

PINK COLLAR

The best dental implant for high aesthetic areas.

To meet the patient's aesthetic demand is crucial for the success of the treatment of implants in the anterior maxilla. The gray color of a dental implant that shows through the peri-implant mucosa has been documented in scientific literature *.

The grey transparency due to the retraction of peri-implant soft tissues, which lead to the exposure of the metal cuff of the prosthesis or of the implant collar is one of the most common aesthetic complications which can incur after an implant treatment in aesthetic area, which necessarily lead to failure in terms of aesthetic results, specially in patients with thin gingival biotype.

With the ISY KONE 2.9 "PINK COLLAR" the problem of the gray shade of traditional titanium implants is finally solved, thanks to a natural pink colour on the collar designed to simulate the peri-implant mucosa and to preserve the aesthetics of the smile line after an implant therapy.

ISY KONE 2.9 "PINK COLLAR" helps the maintenance of the natural aesthetic appearance in the long term, contributing positively to the overall aesthetic result of an implant placed in the anterior areas.

J Esthet Restor Dent. 2017 Nov 12;29(6):409-415. doi: 10.1111/jerd.12309. Epub 2017 Jun 5.
A prospective clinical trial to assess the optical efficacy of pink neck implants and pink abutments on soft tissue esthetics.
Gil MS1, Ishikawa-Nagai S2, Elani HW2, Da Silva JD2, Kim DM1, Tarnow D3, Schulze-Späte U3,4, Bittner N5.

Int J Oral Maxillofac Implants. 2019 May/June;34(3):752-758. doi: 10.11607/jomi.6318. Epub 2019 Feb 19.
Comparison of the Color Appearance of Peri-implant Soft Tissue with Natural Gingiva Using Anodized Pink-Neck Implants and Pink Abutments:
A Prospective Clinical Trial. Gil MS, Ishikawa-Nagai S, Elani HW, Da Silva JD, Kim DM, Tarnow D, Schulze-Späte U, Cleber S, Bittner N.

Clin Oral Implants Res. 2007 Oct;18(5):575-80. Epub 2007 Jul 26.
Optical phenomenon of peri-implant soft tissue. Part II. Preferred implant neck color to improve soft tissue esthetics.
Ishikawa-Nagai S1, Da Silva JD, Weber HP, Park SE.



ISYKONE 2.9

PINK COLLAR

NEW MORSE-TAPER CONNECTION - KN TYPE

Conical connection of 11° tapering, named KN.
Guarantees a stable fixture-abutment and bacterially hermetic connection.

**THE AESTHETIC NECK
PINK COLLAR**
It preserves the height of the smile line,
even in the case of soft tissue contraction

TITAN GRADE 4 - PLUS
Finer and more compact crystalline grain
composition to increase mechanical strength.

DAE
SURFACE

DAE SURFACE
Finer and more compact crystalline
grain composition to increase
mechanical strength.

MICRO-THREADS

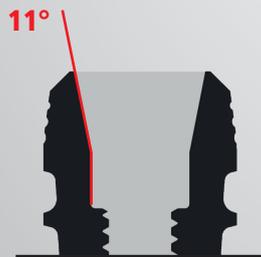
In addition to the back-tapered
neck zone contributes to prevent
and to limit the bone resorption
in the crestal area.

SINGLE-LEAD, SQUARED THREAD WITH 0,9mm PITCH

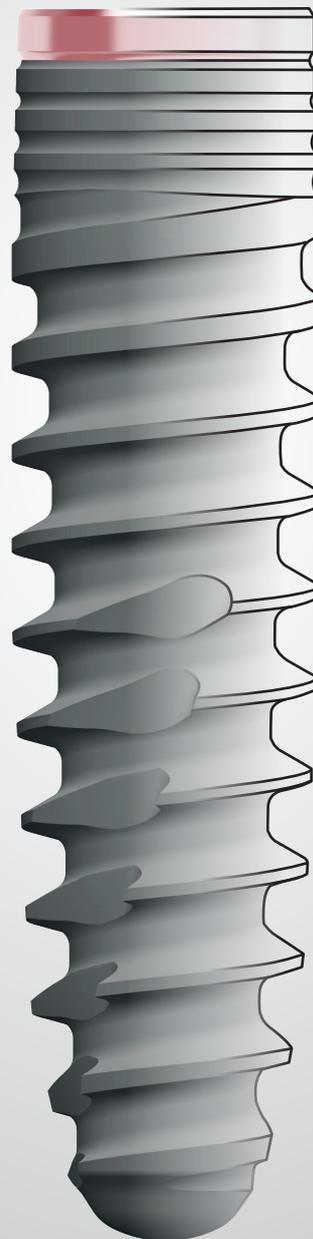
CONICAL BODY

SELF TAPPING

ROUNDED APEX



**MORSE-TAPER
(MTH)
TIPO KN**



GUIDELINES

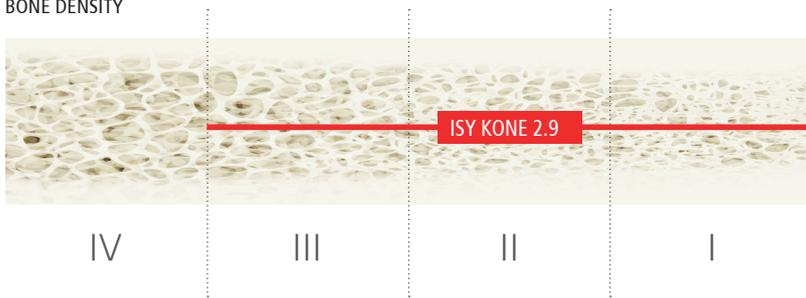
The new BTK ISY KONE system has a diameter of 2.9 mm designed to simplify the protocols in the frontal areas when, in unfavorable conditions, a less invasive surgical approach is required.

This implant is mainly recommended in the case of thin bone ridges and when, in between the frontal teeth, space is limited, such as the lateral maxillary incisors or mandibular incisors. The small diameter implants are not recommended for posterior regions or in areas with very low bone density.

ISY KONE Ø2.9 mm implants are indicated for single restorations.

Based on primary stability, these implants are suitable for two-stage or single-stage healing procedures combined with immediate, early or delayed loading protocols. Single, removable or fixed, crowns can be used to restore the proper masticatory and aesthetic function.

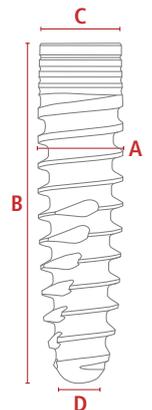
BONE DENSITY



This bone-level implant, which replicates the root of the natural tooth and has self-tapping features, has a smooth collar portion of 0.5 mm with micro grooves and with reverse tapering. ISY KONE Ø 2.9mm is positioned at bone level in presence of bone density from D1 to D3 and offers both healing modalities. The single thread pitch with square profile measures 0.9 mm. The tapered body of ISY KONE Ø 2.9 mm is suitable for application in very small spaces.

PORTFOLIO

MORSE-TAPER CONNECTION KN	implant length in mm B					APEX Ø / mm D
	Ø mm A	8	10	12	14	
	KONIC NARROW (KN) C	KN (konic narrow) Occlusal screw M1.4 Prosthetic platform Ø 2.3 mm Smooth collar portion 0.5 mm				
2,9	129KN29J	129KN29L	129KN29N	129KN29Q	1.7	



SURGICAL PROTOCOL

DRILLS				TAP (D1-D2)*	
IMPLANT	Sharp Lance Drill HR 401HR202***	Screw Tap HR (PILOT) Ø 2mm 426HR200***	Screw Tap HR (PILOT) Ø 2.5mm 426HR250	Screw Tap HR Ø2.9mm 467HR290	
				D1	D2
2,9	8mm	●	●	-	-
	10mm	●	●	-	-
	12mm	○	○	1 ST **	1 ST **
	14mm	○	○	1 ST **	1 ST **

● Always

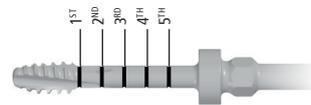
○ Only in presence of D1 bone

* Screw taps are not needed for D3 bone density

** Screw taps should be used when the standard protocol is not sufficient to insert completely the implant without overpassing the maximum insertion torque recommended (max 45 Ncm) and it is a choice that must be evaluated by the clinician after a careful analysis

*** This tool is included in the surgical kit ref, 624NA001

NOTA: ISY KONE 2.9 is not suggested for D4 bone



GUIDELINES

SURGICAL AND PROSTHETIC GUIDELINES

SITE PREPARATION

For flap procedure, make an incision in the ridge at all thickness.

For the flapless procedure, consider the soft tissue thickness.



CREATING THE IMPLANT SITE

Use the **Sharp Lance Drill HR (401HR202)** or **Round Drill HR (401HR200)** to create an invitation on the cortical bone useful for the placement of the next drill.

- Recommended maximum speed: **800 RPM**.



Use the **Twist Drill HR Ø2.0 mm (426HR200)** to create the pilot site, up to the implant length.

- Recommended maximum speed: **600 RPM**.



Use the **Parall. Pin/Depth Gauge (540MA014)** to verify the depth and inclination of the implant site. Proceed to enlarge the hole with the **Twist Drill HR Ø2.5 mm (426HR250)** in case of bone density D1 and use the **Screw Tap HR (467HR290)** in order to reduce the insertion torque if necessary.

- Recommended maximum speed: **600 RPM** for drill and less than **15 RPM** for screw tap.

We recommend an abundant irrigation by means of physiological pre-cooled solution.

INSERTION OF THE IMPLANT

Insert the implant with the handpiece **Implant Driver KN (530HL003)** applying a maximum torque of 45 Ncm with a maximum speed of 25 RPM. To complete the insertion it is possible to place the implant also with the **Torque Wrench JD (501JD003)** using the **Adapter Connection ISO/HEX3.10-JD (530JD033)**, in order to evaluate the final torque of insertion for the implant. Finally, insert the cover screw and tighten it using the **Screwdriver JD (530JD005)**. In the case of immediate loading, once taken the impression, insert the healing screw.

CLOSE THE SURGICAL AREA BY SUTURING

In the case of insertion of a deferred load implant, it is necessary a surgical re-entry, to remove the cover screw and place the healing screw, finally proceed again with the suture. For addition information about the surgical procedure such as for a complete overview about the instrument for ISY KONE implant line, please see the BTK's Surgical Manual (ref. 06200117) and ISY KONE manual (ref. 06200119).

PROSTHETIC NOTES

After the implant insertion, adopting an immediate, early or delayed loading protocols, a CEMENT or SCREW-RETAINED prosthesis can be realized. The choice is subjective and it can condition the clinical case in question. The final tightening of the abutment screw must take place at maximum 15 Ncm using the torque wrench.

DEDICATED SURGICAL INSTRUMENTS

IMAGE	REF	PRODUCT	DESCRIPTION
	530HL003	Implant Driver KN	L33mm
	467HR290	Screw Tap HR	Ø2.9mm L36mm Isy Kone
	426HR250	Twist Drill HR	Ø2.5mm L36.5mm
	426HS250	Twist Drill HS	Ø2.5mm L32.5mm

SURGICAL KIT

	624NA001	SURGICAL KIT ISY KONE - BT SAFE - BT NANO
---	----------	---

MORSE-TAPER (MTH) KN

	201KN2A0	Healing-Abutment KN	H2mm Ø3.5mm
	201KN2A1		H2mm Ø4.5mm
	201KN3A0		H3.5mm Ø3.5mm
	201KN3A1		H3.5mm Ø4.5mm
	201KN2A2		H2mm Ø2.5mm
	201KN3A2		H3.5mm Ø2.5mm
	201KN5A2		H5mm Ø2.5mm
	323KN0A0	Impression Post Propick-Up	H 21.5mm long screw
	690NA299	Impression Post Pick-Up Screw	M1.4 HEX1.20 H26mm
	301KN0A0	Implant Replica KN	
	210KN1A0	Temporary Abutment KN	
	219KN2A0	Aesthetic Abutment KN	H2mm Ø3.5mm
	219KN2A1		H2mm Ø4.5mm
	219KN3A0		H3.5mm Ø3.5mm
	219KN3A1		H3.5mm Ø4.5mm
	220KN2C0	Angled Abutment KN	10° H2mm Ø3.5mm
	220KN2C1		10° H2mm Ø4.5mm
	220KN3C0		10° H3.5mm Ø3.5mm
	220KN3C1		10° H3.5mm Ø4.5mm
	246KN1A0	BT LINK KN	H1mm Ø4.1mm
	247KN1A0	Base BT Link KN	H1mm Ø4.1mm no Cap.
	205NA001.05	Castable Plastic Abut. BT Link	H1mm Ø4.7mm Kit 5pz
	240KN1A0	CoCr Abutment KN	H1.5mm
	351KN1A0	Scan Abutment Extra-oral KN	
	352KN1A0	Scan Abutment Intra-oral KN	
	690NA297	Retentive Screw	M1.4 HEX1.20 H8mm
	690NA298		M1.4 HEX1.20 H8mm TP

BTK PERSONAL TUTOR

An extended program for individual case planning and execution supported by experienced professionals in order to leverage know-how and maximize clinical experience with the aim to achieve sustainable high patient satisfaction rates.

Btk is always at your disposal for any request for further follow-up or information, promoting periodic and personal training courses.

CERTIFIED QUALITY SYSTEM

**BIOTEC is certified UNI EN ISO 9001
and UNI EN ISO 13485.**



CE marked product, in accordance with Directive 93/42/EEC and subsequent modifications and additions.

MADE IN ITALY USED GLOBALLY



We constantly ensure that the quality of our products and services meet the high expectations of our customers and their patients. Specialized professionals are taking care to offer comprehensive solutions in applied research, engineering, education and related activities.

