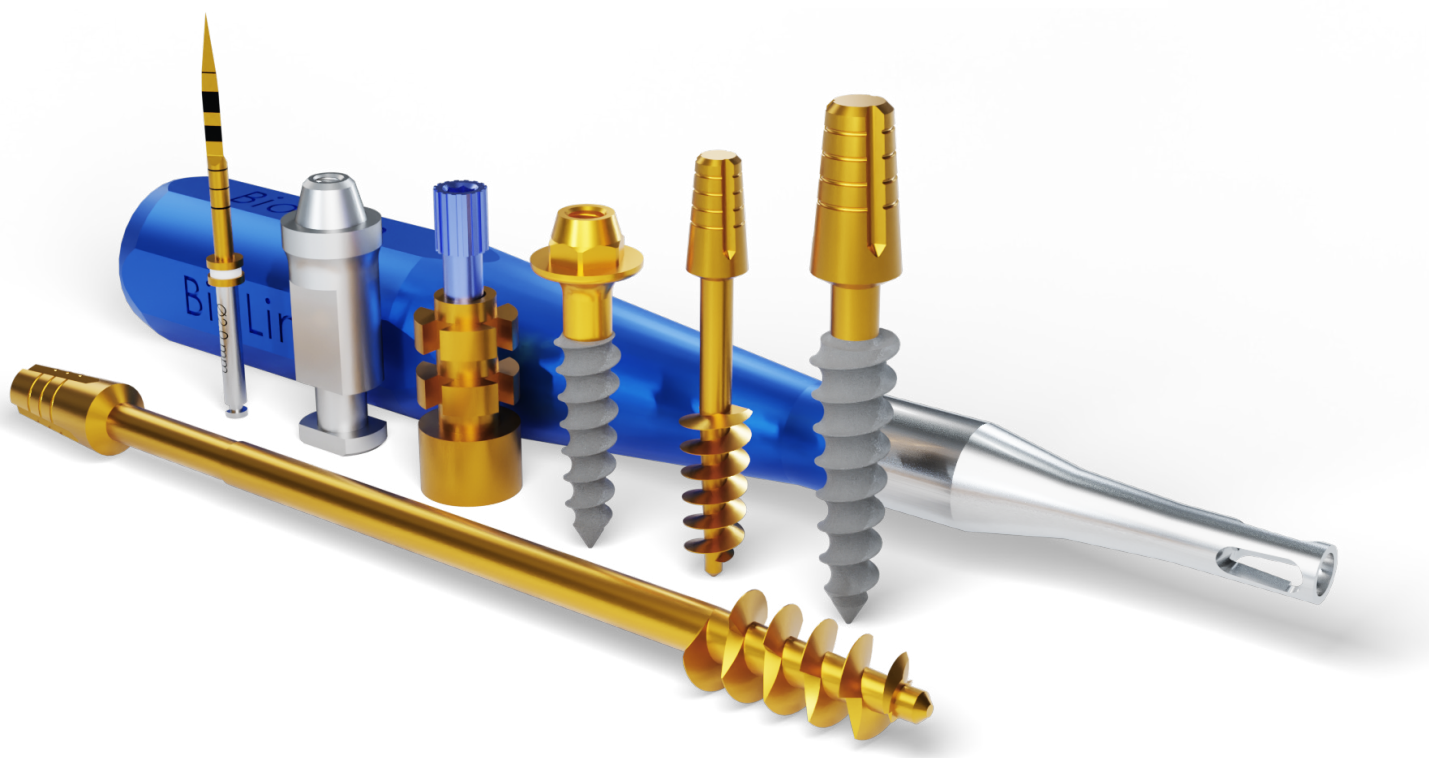


BioLine[®]

Dental Implants Series



THE ART OF SIMPLICITY

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 **Notes:** _____

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warning: only a licensed dentist should use these products.

The art of simplicity, is our guiding line

At Bioline Dental Implants, we address the needs of dental implantology's, sharing our experience and technologies, utilize experts and invest in research, training and education. All this results in the art of simplicity solutions that simplify dental implantology procedures and deliver proven clinical long-term success.

We maximize our experience and innovative technologies

We Maximize our experience and technologies to ensure that our products offer the best high-end clinical solution. From the beginning of our activity in 2005, we have been focused on the development, design and manufacture of dental implants and very accurate prosthetic parts. Our state of the art manufacturing facility, which is operational 24/7, includes a dedicated team of designer's clinical consultant, cnc operators and Qa department to ensure the highest possible standards and quality of our products enable us to grant a lifetime warranty for our dental implants.

We offer high quality, simple-to-use product lines

We have been focused on state of the art simple-strong-accurate implant technology by developing implants based on two connections principals - an internal hex connection and a conical hex connection. Created on a switching -platform that fit all possible prosthetic system, they allow dentists to use a single restoration line for each implant platform. Furthermore, the development of all our products –implants, abutments and surgical tools – takes existing systems into account in order to make the procedure simple and minimize dental surgent period of learning. As a resolute of this method, our surgical tool kit is compatible with all products and includes everything from basic surgical tools to advanced instruments needed in maximum efficiency and agronomic – economic thinking. And in addition to make work processes short and simple, our products have an overall implant clinical success rate of 98.7% reported and documented according to our detailed recommended instruction for use.

We invest in research and development constantly

Our R&D teams collaborate closely with an international panel of experts who have extensive clinical and academic knowledge. We also invest in new technologies and encourage innovative thinking, clinical trials, studies. This investment of research and development ensures that our products are constantly aligned with market needs and constant improvement's, and that we are able to develop clever, easy and simple to use, best quality products.

We Invest in Training and Education of Students and Our Customers

We firmly believe that sharing our knowhow, and experience is very important to ensure successful and effective implantology methods and procedures. we provide hands on courses around the world, where we train graduate students and our customers to be as professional and educated\updated in the latest dental implantology procedures and innovative methods developed by our team of experts. We Adopt and Implement Digital Means and Technologies into The Dental World We embrace the technological changes involved in the digitalization of the dental world in order to support the present and future needs of our customers. Consequently, our digital CAD/CAM line offers a wide rangeof restoration products for our two implant connections. Additionally, our Guided Surgery Tool Kit supports guided surgery methods and enables dentists to select the software to use when planning surgeries, making their work easier and simpler.

We are environment friendly

We are very committed to environment keeping and take maximum measures to avoid using harmful and non-green materials in production lines we also encourage recycling of packing materials and prefer suppliers respecting environment. We encourage contributing to global community, We at Bioline participate in local-global events of contributing to community in developing countries and support pro bono contributor's by giving free products to aid needing communities.

Engineering cad-cam

Our company specializes in designing computer-aided dental elements. The planning department engineers have extensive experience in many areas of computerized mechanical design.

- Strength of materials.
- Simulation of assemblies and subassemblies.
- Metallurgy.

Human engineering and product planning to use a simple, stable and comfortable design for the doctor and the patient. Dental product design requires a comprehensive scientific approach concerning mechanical strength of the product and the ability to ensure the survival during transplantation, as well as the creation of a precise & strong connection that is resistant to vibration and continuous wear. We are working on the continuous development of new products and improving existing products to ensure total quality so as to assure long-term success in improving the patient's quality of life.

State of the art accurate machining

Our company has a modern factory with high quality computerized machines, very secure, continuous and repeatable accuracy. Manufacturing operations are based on a computerized manufacturing system and program management and monitoring of the different jobs and a very strict production process, controlled by skilled workers with knowledge and experience.

Quality inspection

Our company manufactures medical-dental products during application and adaptation to the most stringent workmanship standards in the industry. The company's products are tested in the production process and in the transition between the various production stages by qualified inspectors in accordance with the specifications defined in the production procedures. Our company is certified to ISO 13485-2012 and carries the CE-1023 icon. Our company is working constantly to improve the quality policy and ensuring the maximum quality level of the company's products, all to ensure excellent products and customer satisfaction.

Clean room packing

The packaging process is done in a clean room, ensuring a purification level specified by the medical device for dental implants. The packaging room environment ensures hygiene of the product during the sterile packaging and ensuring long shelf life without any possible contamination of the product. This clean room environment is suitable for international labor standards defined in the CE standard.



At Bioline, quality management is an integral part of the way we do business. Quality is one of our company's core values. We believe that in order to provide quality products and service to our customers, we must think-act-implement quality at all times. Our team is comprised of highly professional and qualified personnel who all contribute, each with their own expertise, to cooperatively create the high standards we uphold. Integrity and transparency are an integral part of our organizational culture, enabling us to offer products from the highest of standards in the dental market. Bioline dental Implant in-house manufacturing facilities allow it to efficiently produce commercial quantities of implants and accurate prosthetic parts to meet US, EU, Rus, India Mexico and many other countries requirements. We have a state of the art production facility that is dedicated to providing high quality products. Each and every one of our products designed and manufactured to meet the highest level of standards worldwide and we are regulatory approved by a number of leading notify bodies.

International Regulations-Certifications

As an advanced medical certified manufacturing facility, Bioline is fully compliance with all European directive for Medical Devise EN 93/42/EEC and ISO 13485:2016. Our factory is inspected on a regular basis by European Notified Body to ensure we are comply the requirements of the Standards.

Bioline is authorized to operate within USA and the EEA and all regulating bodies have given their approval to Bioline. We have invested a significant amount of resources to ensure that we maintain high quality in our manufacturing processes.

Bioline had gain and work according to the following standards:

CE marking - Certificate Number 14 0611 QS/NB/a

EN ISO 13485:2016 – Certificate Number I14081.

FDA listing of all prosthetic part and surgical tools

CDSCO : IMP/MD/2023/000285

RUS – Russian regulation and marketing certificate

Free sale & Declarations of Conformity for medical device products are available

Bioline has complete confidence in the quality and long-term success of the products we manufacture and market, therefor we offer a lifetime guarantee to all of our products. provided they are used properly and in accordance with our instructions for use and maintenance.



What is osseointegration?

Osseointegration, defined as a direct structural and functional connection between ordered, living bone and the surface of a load-carrying implant, is critical for implant stability, and is considered a prerequisite for implant loading and long-term clinical success of endosseous dental implants. The implant-tissue interface is an extremely dynamic region of interaction. This complex interaction involves not only biomaterial and biocompatibility issues but also alteration of mechanical environment. The processes of osseointegration involve an initial interlocking between alveolar bone and the implant body, and later, biological fixation through continuous bone apposition and remodeling toward the implant. The process itself is quite complex and there are many factors that influence the formation and maintenance of bone at the implant surface.

The usage & advantage of calcium phosphate:

Calcium phosphate (CaP) biomaterials currently in use for bone repair, substitution, augmentation, and regeneration include hydroxyapatite of synthetic or biologic origin, beta-tricalcium phosphate (β -TCP) and biphasic calcium phosphate. They are available as granules, porous blocks, CaP/polymer composites, cements, and as coatings on orthopedic and dental implants. Experimental CaP biomaterials include CO₃- and F-substituted apatites, Mg- and Zn-substituted β TCP, and CaP glasses.

Biofix[®] : Biological Surface Treatment concept:

The use of a granular, multi-phase calcium phosphate abrasive such as **Biofix**[®] Apatitic Abrasive has been recognized and Accepted for many years in the dental, orthopedic, and spinal markets.

Biofix[®] Apatitic Abrasive provides a textured surface to either increase the surface area that comes in contact with the bone or as a surface preparation prior to the application of a coating such as hydroxyapatite or porous titanium.

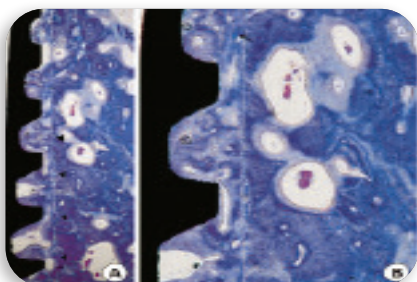
Conventional abrasive blasting techniques that utilize alumina or silicon carbide always leave residual abrasive as a contaminant embedded in the implant surface.

Biofix[®] Apatitic Abrasive will provide a residue free surface after passivation.

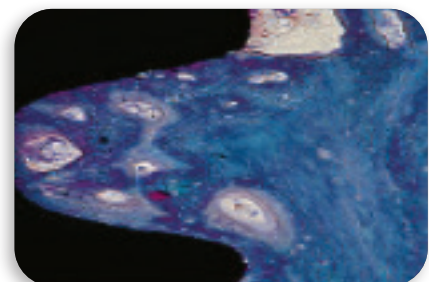
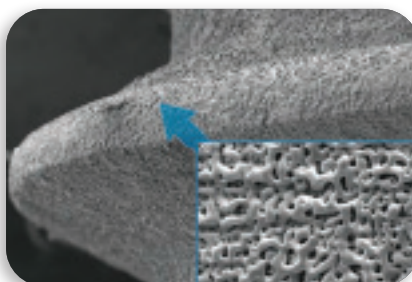
The reference literature below links to research studies which discuss sandblasted and acid etched (SLA) surface treated implants—specifically with the use of Bionline's **Biofix**[®] Apatitic Abrasive.

Our guiding line in **Biofix**[®] formula is to avoid possible metal contamination's caused by remains of abrasive materials sprayed on the titanium implant during surface treatment creation.

Biofix[®] treatment provides the cleanest and most effective result to be monitored for many years to come.



Rotational implants group, 4-week healing period (H&E: A, $\times 40$; B, $\times 100$).



References:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3602536/>
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3596629/>
http://www.jaypeejournals.com/eJournals/ShowText.aspx?ID=7317&Type=FREE&TYP=TOP&IN=_eJournals/images/JPLOGO.gif&IID=555&isPDF=YES

BioLine Single piece implant series, A Perfect Solution to Add on Your Implant Practice!

What is a single piece implant?

Single piece implant – as his name is a single piece solid designed implant with a build in abutment on top

The use of single piece implants:

Today in the modern implantology filed, things are getting changed quickly and the demands of the patients increased compare to the last years, especially treatment time period wise, they are not willing to wait for long time as before

Single piece implant system brings to the table first of all simplicity

Active sharp threaded implants along with build in abutment allow us to get great initial stability while placing it, that's leads for immediate loading possibility, and thanks to the solid build in abutment easy to achieve that, and to complete the same case in the same appointment or within 3 days

Single piece implants advantages':

No connection – solid strong neck & abutment

Bendable neck for perfect angulation compensation & parallelism

Aggressive design for better primary stability

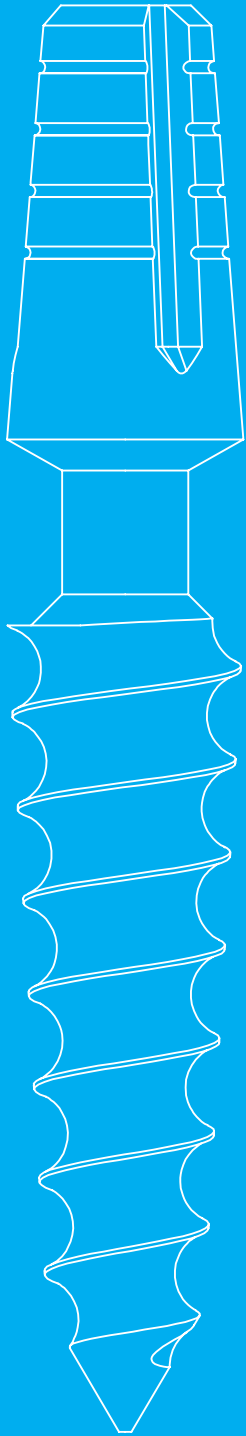
Wide range of designs, diameters, and lengths

Surface treatment options – to fit in any bone condition

Key hole flapless procedure, time and pain saving

BioLine single piece implant series has been designed dedicatedly to suit in extreme challenges cases , and to provide strong and stable life time solution!





SINGLE PIECE IMPLANT SYSTEM



Single piece implants advantage's:

- **No connection – solid strong neck & abutment**
- **Bendable neck for perfect angulation compensation & parallelism**
- **Aggressive design for better primary stability**
- **Wide range of designs, diameters, and lengths**
- **Surface treatment options – to fit in any bone condition**
- **Key hole flapless procedure, time and pain saving**

NEW ERA OF MODERN IMPLANT DENTISTRY !



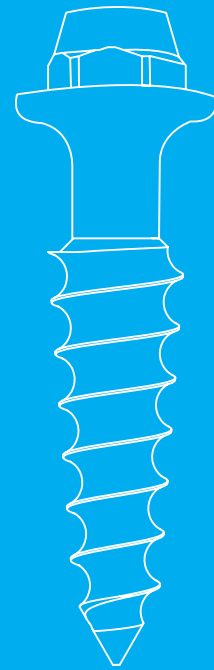
COMPRESSIVE



BASAL

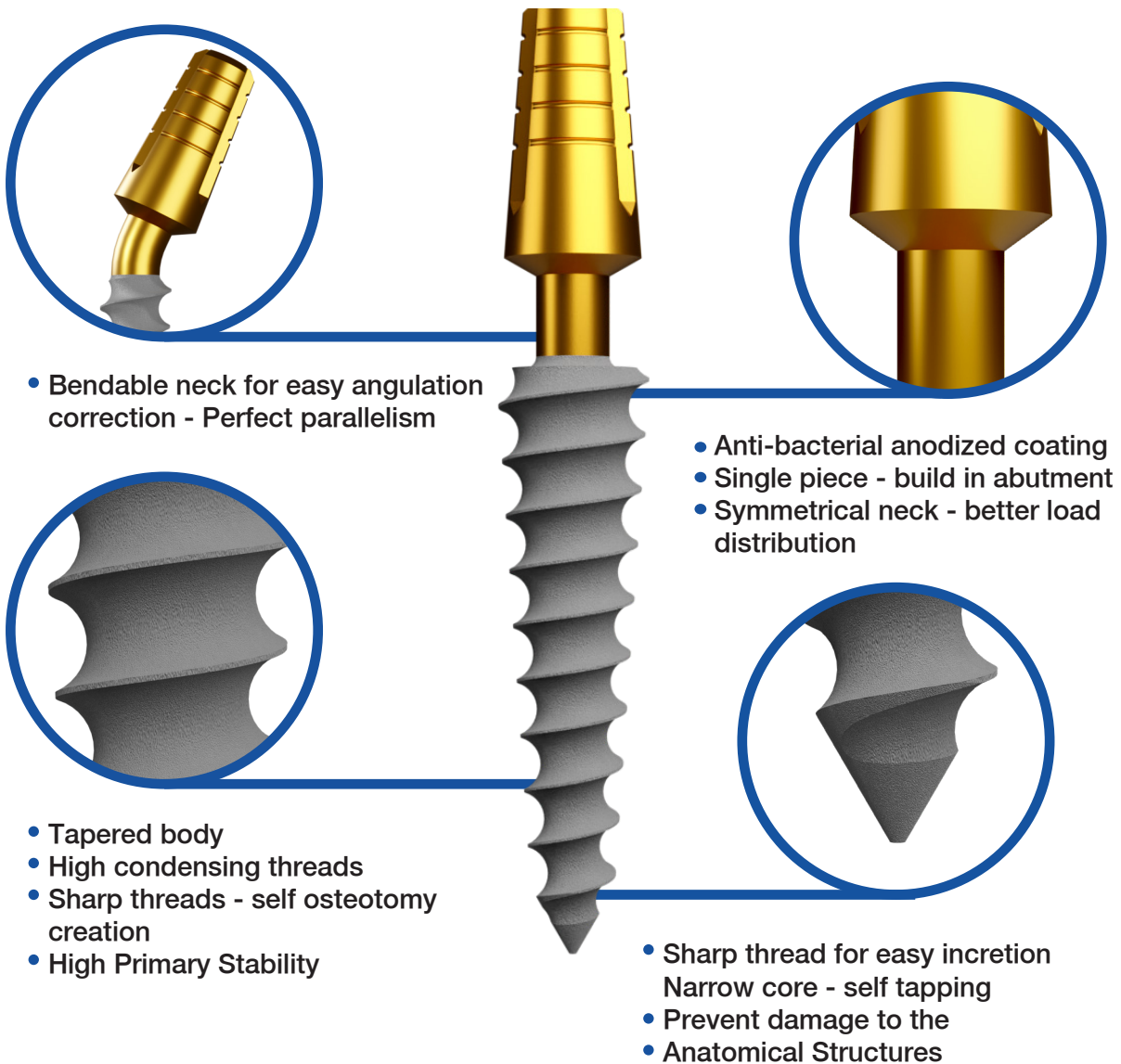


ZYGOMATIC



COMPRESSIVE
MULTI UNIT

Compressive



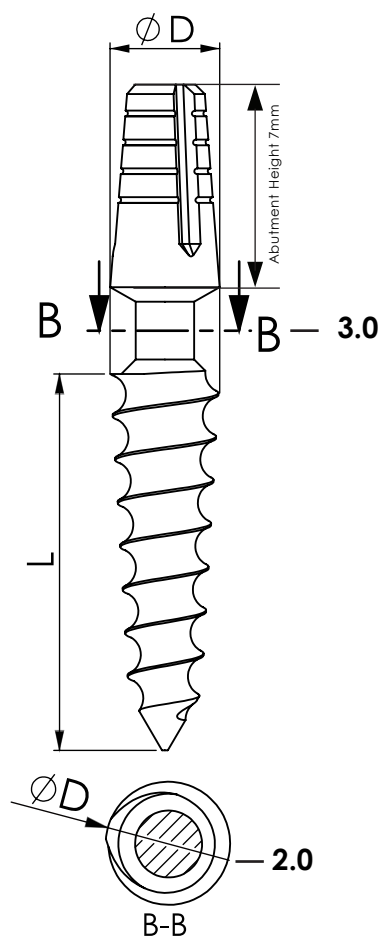
SURFACE TREATMENT OPTIONS

IMPLANT PACKAGE

Compressive Smooth Implant

Indication- the perfect choice for trans sinus implant placements , to fasten the sinus healing , avoid inflammation , and achieve perfect Anchorage as well as for any rescue cases when rough surface implants has been failed and the chances of infection & inflammation are high
 Ordering information- add S to the code mentioned at the table below





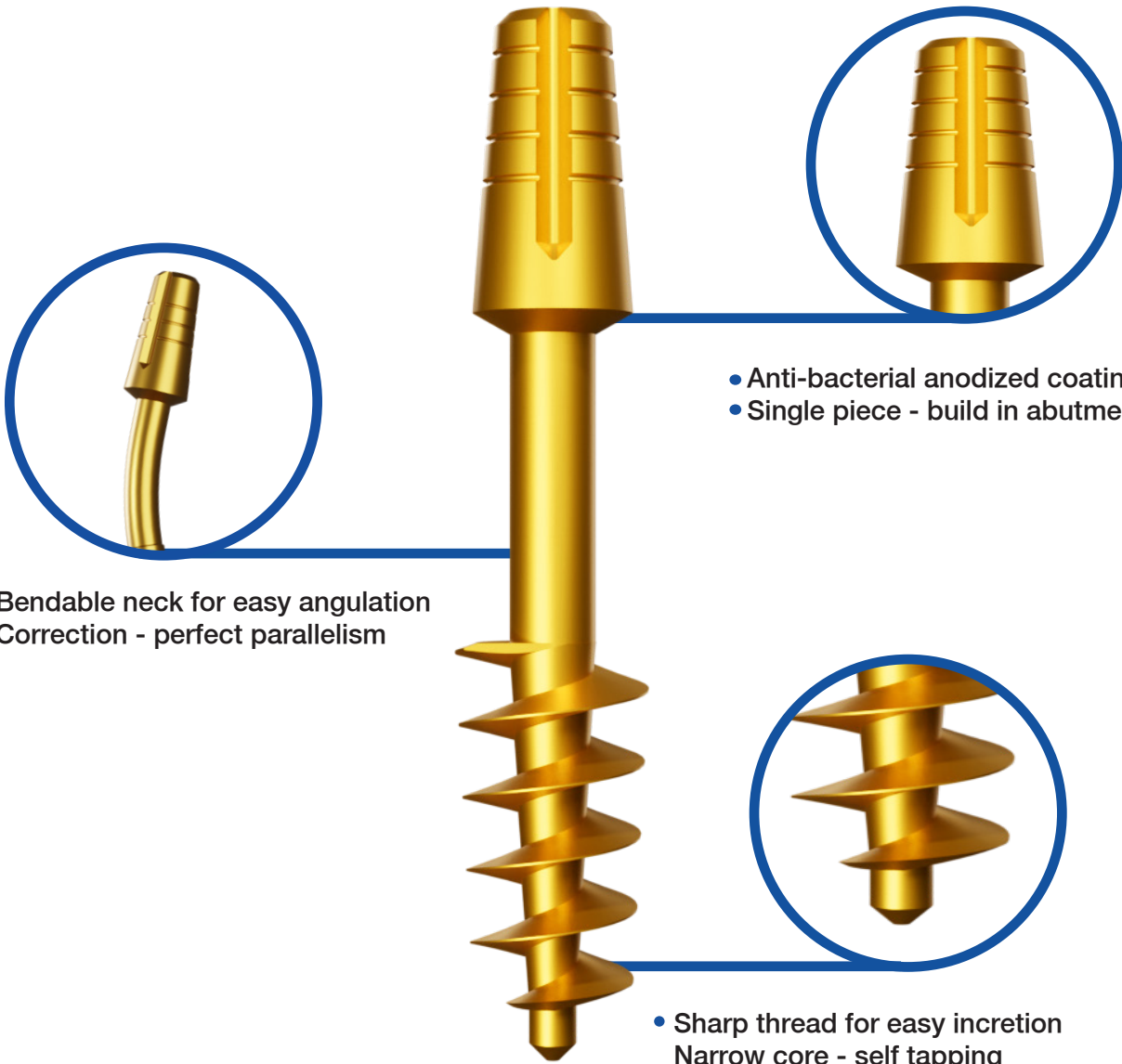
ØD (mm)	L (mm)	Ref. no
3.0	8	BIO-CC3008
	10	BIO-CC3010
	11.5	BIO-CC3011
	13	BIO-CC3013
	16	BIO-CC3016
	18	BIO-CC3018
3.3	20	BIO-CC3020
	8	BIO-CC3308
	10	BIO-CC3310
	11.5	BIO-CC3311
	13	BIO-CC3313
	16	BIO-CC3316
	18	BIO-CC3318
3.75	20	BIO-CC3320
	22	BIO-CC3322
	25	BIO-CC3325
	8	BIO-CC3708
	10	BIO-CC3710
	11.5	BIO-CC3711
	13	BIO-CC3713
4.2	16	BIO-CC3716
	18	BIO-CC3718
	20	BIO-CC3720
	22	BIO-CC3722
	25	BIO-CC3725
	8	BIO-CC4208
	10	BIO-CC4210
5.0	11.5	BIO-CC4211
	13	BIO-CC4213
	16	BIO-CC4216
	18	BIO-CC4218
	20	BIO-CC4220
	22	BIO-CC4222
	25	BIO-CC4225
5.0	8	BIO-CC5008
	10	BIO-CC5010
	11.5	BIO-CC5011
	13	BIO-CC5013
	16	BIO-CC5016
	18	BIO-CC5018
20	BIO-CC5020	

BioLine Compressive implant, is a single piece implant in structure, contain the implant with a build in abutment, and narrow neck which can be bended.

The design of BioLine compressive implant, as its name is compressive, ment to compress and condense the natural native bone due under drilling Protocol, and to preserve the bone.

The compressive implant series available in wide range of different diameters and lenghs, starts at 3.0mm dia which is very narrow and very suitable for narrow ridges and single teeth replacement in the esthetic smile zone, and reached till 6.0 mm diameterwhich can suit even for molar replacement.

Due the active design and the single piece structure, SDI Compressive implant is highly recommended for “immediate placement & loading Techniques”



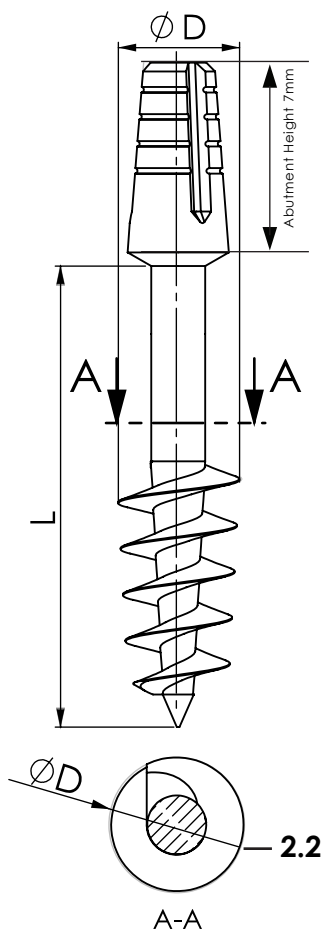
- Bendable neck for easy angulation
Correction - perfect parallelism

- Anti-bacterial anodized coating
- Single piece - build in abutment

- Sharp thread for easy incision
Narrow core - self tapping
- Prevent damage to the
Anatomical Structures

IMPLANT PACKAGE





ØD (mm)	L (mm)	Ref. no
3.6	10	BIO-BC3610
	12	BIO-BC3612
	14	BIO-BC3614
	17	BIO-BC3617
	20	BIO-BC3620
	23	BIO-BC3623
	26	BIO-BC3626
	29	BIO-BC3629
4.6	10	BIO-BC4610
	12	BIO-BC4612
	14	BIO-BC4614
	17	BIO-BC4617
	20	BIO-BC4620
	23	BIO-BC4623
	26	BIO-BC4626
	29	BIO-BC4629
5.5	10	BIO-BC5510
	12	BIO-BC5512
	14	BIO-BC5514
	17	BIO-BC5517

BioLine Basal implant, is a single piece implant in structure, contain the implant with a build in abutment, and narrow neck which can be bended The BioLine Basal implant, as its name is Basal, ment to get bicortical anchorage to the basal bone with great stability, and to follow immediate loading protocol even in extreme atrophic ridges The Basal implant series available in wide range of different diameters and Lengths, starts at 3.6 mm dia which is narrow and very suitable for narrow ridges and single teeth replacement in the esthetic smile zone, and reached till 5.5 mm diameter which can suit even for molar replacement Due the active design and the single piece structure, SDI Basal implant is highly recommended for "immediate placement & loading Techniques

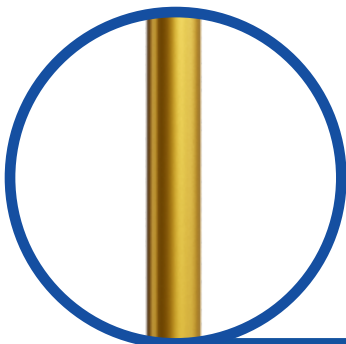
ZYG



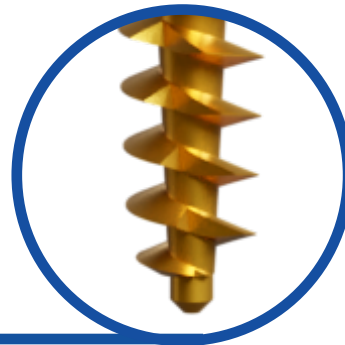
- Bendable neck for easy angulation
Correction - perfect parallelism



- Anti-bacterial anodized coating
- Single piece - build in abutment
- Symmetrical neck - better load distribution



- Smooth long neck - prevent bacteria & inflammation

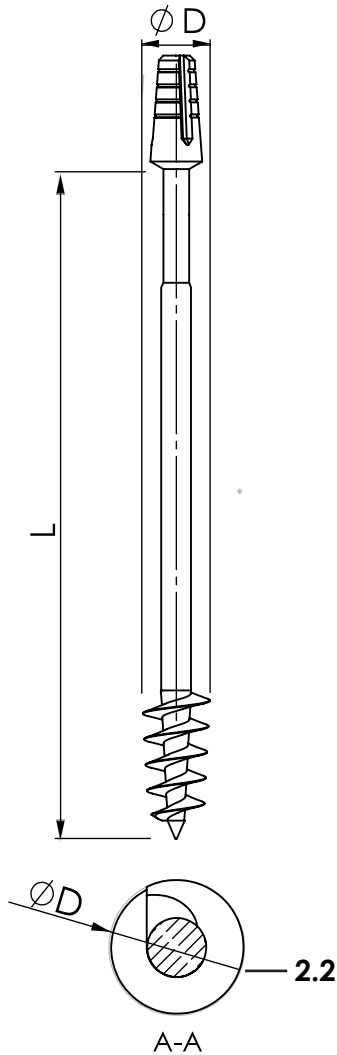


- Sharp & deep thread - easy incertion
- Narrow core - self tapping

IMPLANT PACKAGE



Zygomatic Cementable



ØD (mm)	L (mm)	Ref. no
4.6	30	BIO-BC4630
	32	BIO-BC4632
	35	BIO-BC4635
	37	BIO-BC4637
	40	BIO-BC4640
	42	BIO-BC4642
	45	BIO-BC4645
	47	BIO-BC4647
	50	BIO-BC4650
	52	BIO-BC4652
	55	BIO-BC4655

Zygomatic implants are an evidence based surgical and prosthetic solution for both two stage and immediate loading protocols today, zygomatic implants are usually placed using an immediate loading protocol. The main indication for zygomatic implants is severely resorbed edentulous maxilla, but they can also be used in partially edentulous situations indications for zygomatic implant insertion include: alternative for sinus augmentation, failed sinus augmentation, rehabilitation after tumor resection or trauma, failure of conventional implants, failure of previous bone grafts the placement of zygomatic implants requires adequate training and surgical experience

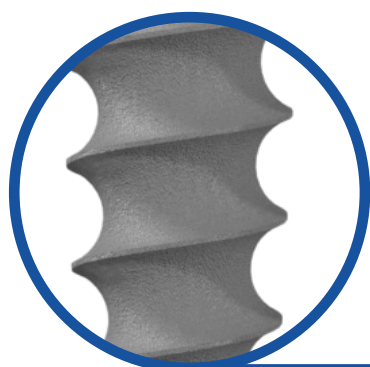
Compressive



- Bendable neck for easy angulation
Correction - perfect parallelism



- Build in multi unit abutment for screw retained retrievable prosthetics



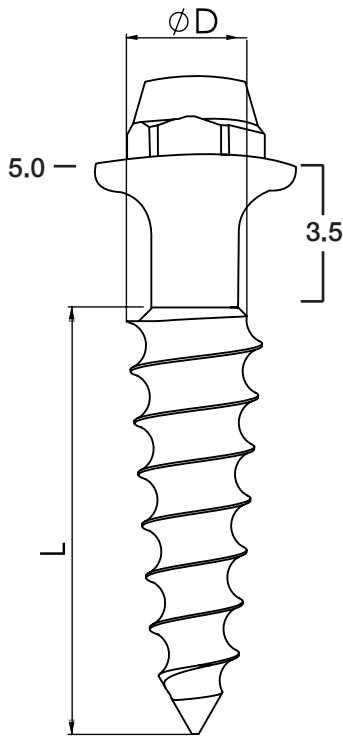
- Tapered body
- High condensing threads
- Sharp threads - self osteotomy creation
- High Primary Stability



- Sharp thread for easy incision
Narrow core - self tapping
- Prevent damage to the
Anatomical Structures

IMPLANT PACKAGE





ØD (mm)	L (mm)	Ref. no
3.3	8	BIO-CMU3308
	10	BIO-CMU3310
	11.5	BIO-CMU3311
	13	BIO-CMU3313
	16	BIO-CMU3316
	18	BIO-CMU3318
	20	BIO-CMU3320
3.75	8	BIO-CMU3708
	10	BIO-CMU3710
	11.5	BIO-CMU3711
	13	BIO-CMU3713
	16	BIO-CMU3716
	18	BIO-CMU3718
	20	BIO-CMU3720
4.2	8	BIO-CMU4208
	10	BIO-CMU4210
	11.5	BIO-CMU4211
	13	BIO-CMU4213
	16	BIO-CMU4216
	18	BIO-CMU4218
	20	BIO-CMU4220
5.0	8	BIO-CMU5008
	10	BIO-CMU5010
	11.5	BIO-CMU5011
	13	BIO-CMU5013
	16	BIO-CMU5016
	18	BIO-CMU5018
	20	BIO-CMU5020

BioLine Compressive Multi unit implant, is a single piece implant in structure, contain the implant with a build in multi unit abutment for screw retained implant prosthetics and full mouth rehabilitation . The design of BioLine compressive implant, as its name is compressive, ment to compress and condense the natural native bone due under drilling Protocol, and to preserve the bone. The compressive implant series available in wide range of different diameters and lenghs, starts at 3.0mm dia which is very narrow and very suitable for narrow ridges and single teeth replacement in the esthetic smile zone, and reached till 5.0 mm diameter which can suit even for molar replacement. Due the active design and the single piece structure, SDI Compressive Multi Unit implant is highly recommended for “immediate placement & loading Techniques”

SURFACE TREATMENT OPTIONS

Compressive Multi Unit Smooth Implant

Indication- the perfect choice for trans sinus implant placements , to fasten the sinus healing , avoid inflammation , and achieve perfect Anchorage as well as for any rescue cases when rough surface implants has been failed and the chances of infection & inflammation are high
 Ordering information- add S to the code mentioned at the table below



Prosthetic Options For Multi Unit Implant



Multi-Unit Plastic Castable Sleeve

| Cat No. | CMU-MPLD |



Multi-Unit Titanium Sleeve

| Cat No. | CMU-MUTSDL |



Healing Cap For Multi-Unit

| Cat No. | CMU-MUHC1 |



T-Base For Multi Unit Abutment

| Cat No. | CMU-DTS-S |



Scan Body For Multi Unit Abutment

| Cat No. | CMU-SBMU |



Open Transfer For Multi-Unit

| Cat No. | CMU-MUTRIO |



Analog For Multi-Unit

| Cat No. | CMU-DAMU |



Screw for Angulated Multi-Unit

Included with all types of abutments

| Cat No. | CMU-MSC |

Prosthetic Options For CC/BC Implants



Analog For CC/BC Implant

| Cat No. | BIO-SPA |



Transfer For CC/BC Implant

| Cat No. | BIO-SPT |

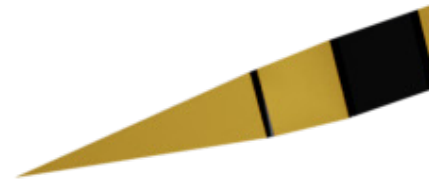


Castable Cap For CC/BC Implant



| Cat No. | BIO-SPH |










Useful & Practicle Instruments & Tools







Drills

mark-	exten-
Cat No	Cat No
	
BIO-D3410	BIO-D3412

step

Diameter Ø(mm)	2mm	2.5mm	2.8mm	3.2mm	3.65mm	4.2mm	5.2mm
Cat No							
	BIO-D1220	BIO-D1225	BIO-D1228	BIO-D1232	BIO-D1236	BIO-D1242	BIO-D1252

CORTICAL drills

Diameter Ø(mm)	2mm	2.5mm	2.8mm	3.2mm
Cat No				
	BIO-CD20	BIO-CD25	BIO-CD28	BIO-CD32

ratchet

Cat No



BIO-X1021

depth probe

Cat No



BIO-X1025

surgical screw
driver for cc/bc im-

Cat No



BIO-X1036




surgical screw
driver hex 6.35

Cat No





BIO-X1023



driver hex 1.25

Length	7mm	10mm	15mm
Cat No	 BIO-X1207	 BIO-X1210	 BIO-X1215


driver for cc/bc im-

Length	10mm	15mm
Cat No	 BIO-SPK10	 BIO-SPK15


MOTOR DRIVER FOR CC/BC

Length	10mm	15mm
Cat No	 BIO-SPMK10	 BIO-SPMK15

driver hex 1.25

Length	7mm
Cat No	 BIO-X1006

driver hex 1.25

Length	15mm
Cat No	 BIO-X1007

Single Piece Kit



Uniquely designed & fully loaded, the All New BioLine Single Piece Implants Kit contains all required tools in order to successfully place Single Piece Dental Implants in various clinical indications, with a wide range of osteotomy drills, torque ratchet with maximum torque capacity of 70 NC and wide range of motor & ratchet driven implant insertion drivers for the compressive, basal & multi-unit implant system.

The BioLine single piece implants kit is extremely user-friendly and simplifies dental implantology procedures!

Single Piece Kit contain:

Torque ratchet hex 6.35
Depth probe till 16mm length
Drill extender
Ratchet drill extender
Motor driver for CC/BC implants short
Motor driver for CC/BC implants long
Ratchet driver for CC/BC implants short
Ratchet driver for CC/BC implants long
Ratchet driver for CMU/BMU implants
Ratchet driver for CMU/BMU implants bending
2.0 mm standard drill
2.8 mm standard drill
3.2 mm standard drill
3.65mm standard drill
4.2 mm standard drill
2.0 mm cortical drill
2.5 mm cortical drill
2.8 mm cortical drill
3.2 mm cortical drill

BIO-X1021
BIO-X1025
BIO-D3142
BIO-D3414
BIO-SPMK10
BIO-SPMK15
BIO-SPK10
BIO-SPK15
BIO-X1600
CMU-KEY
BIO-D1220
BIO-D1228
BIO-D1232
BIO-D1236
BIO-D1242
BIO-CD20
BIO-CD25
BIO-CD28
BIO-CD32

BioLine®

Dental Implants Series



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EC	REP
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