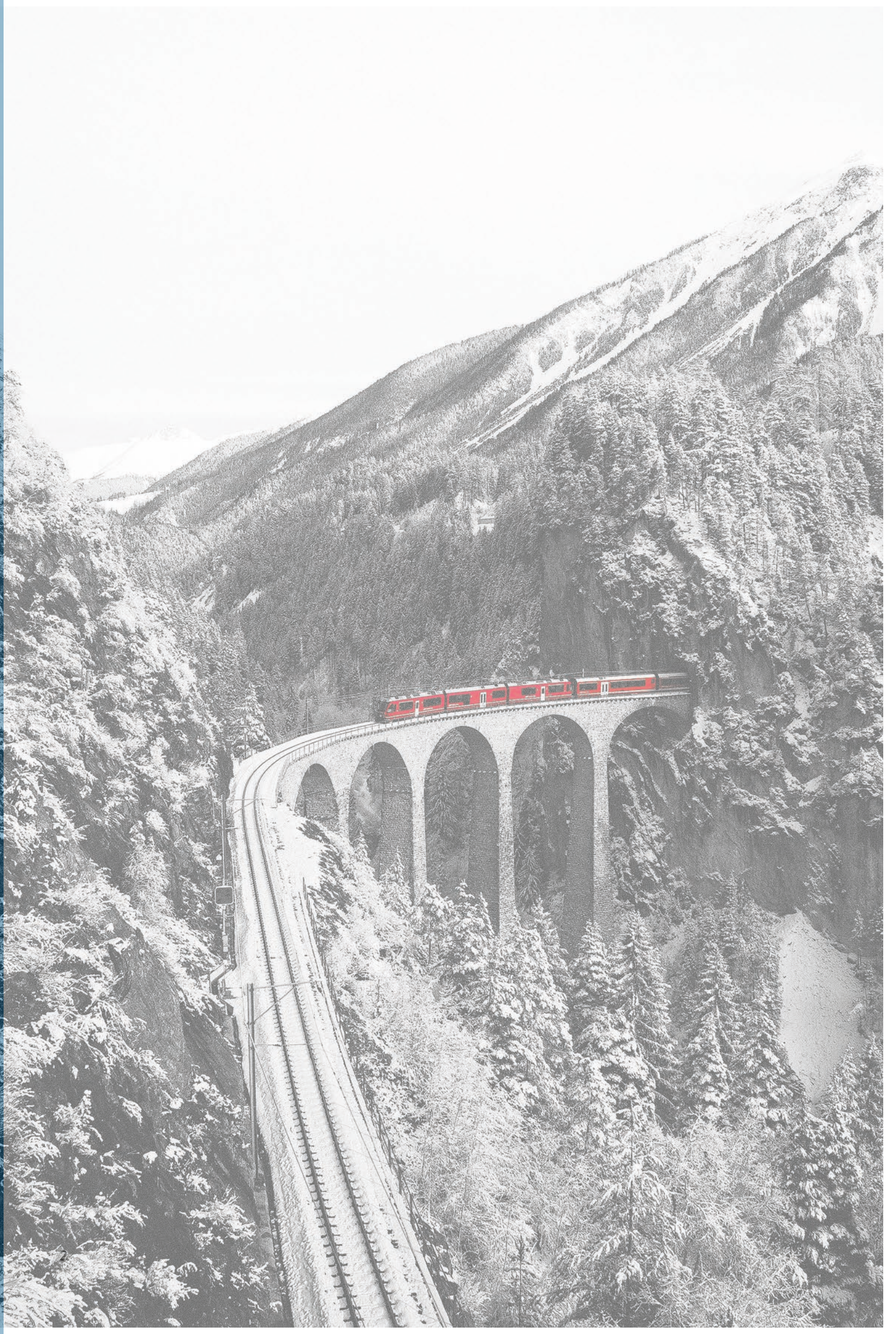
iRES®

complete solutions for oral surgery

IMPLANT SYSTEM
PROSTHETIC PARTS
TRADITIONAL AND GUIDED **SURGERY**

IMPLANT CATALOG 05.2025



iRES swiss implant quality

international
Reliable
Efficient
Safe

Reliable results and a short time frame: these indispensable elements of modern oral surgery have been the aim of iRES from the very beginning. This can be observed also in implant lines, designed to offer **maximum simplicity and versatility.**

Thanks to the synergy with top-level **opinion leaders,** such as Prof. Massimo Simion, iRES is one of the first companies to develop **hybrid-surface implants,** an additional option that clinicians can adopt for periodontal patients.

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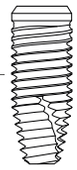
BONE LEVEL IMPIANTS

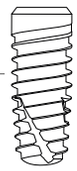
iMAX

- INTERNAL HEX **ø 3.3 - 3.7 - 4.1 - 4.7 - 5.2**



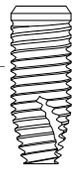
VOLUTION

- INTERNAL HEX **ø 3.3 - 3.7 - 4.1 - 4.7 - 5.2**



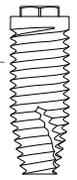
SHAPEONE

- INTERNAL HEX **ø 3.7 - 4.1 - 4.7**



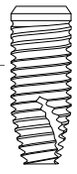
iMAX

- EXTERNAL HEX **ø 3.3 - 3.7 - 4.1 - 4.7 - 5.2**



iMAX *MISIC*

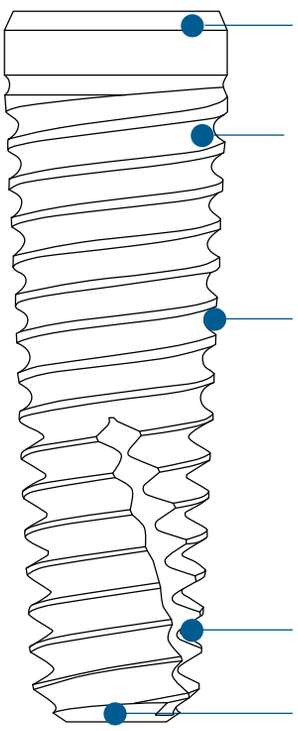
- CONO-MORSE NARROW **ø 3.3 - 3.7 - 4.1 - 4.7 - 5.2**



Dental implants are made of titanium for medical use in compliance with current regulations.

iMAX

UNIVERSAL SYSTEM
FOR ALL TYPES OF BONES



Platform switching

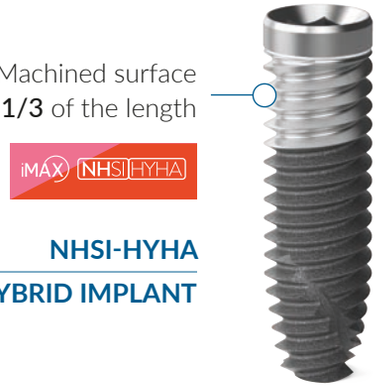
Cylindrical body

60° double thread over the entire body implant with a pitch of 1.2 mm (0.6 mm/thread); **each turn allows to go down of 1.2 mm**, speeding up the insertion phase.

2 apical cuts helicoidal

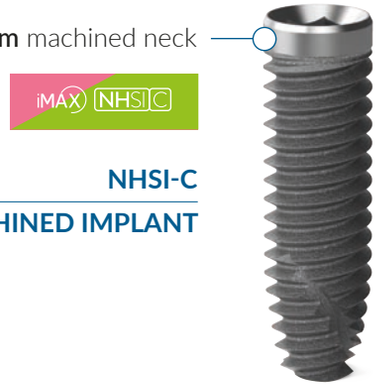
Conical apex flat tip

Machined surface on **1/3** of the length



NHSI-HYHA
HYBRID IMPLANT

1 mm machined neck



NHSI-C
NECK MACHINED IMPLANT

ø	heights (mm)				implant thread (mm)	connection	platform (mm)	hex (mm)	thread
3,3	10	11.5	13	16	fine double thread 0.6	internal hex	3.2	2,1	1/72

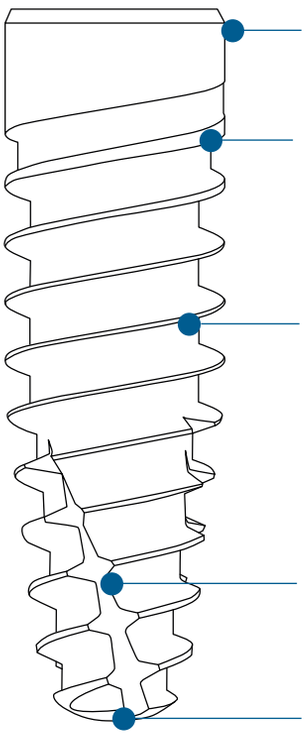
DRIVERS

H	*code*
25	HDH21S
30	HDH21L

Material: Surgical steel

VOLUTION

LARGE THREAD IMPLANT
FOR HIGH PRIMARY STABILITY



Platform switching

Implant with ogival design

Pronounced spires with cutting profile. Higher primary stability

3 spiral counter-unload furrows

Conical apex rounded tip

Machined surface on **1/3** of the length

VOLUTION SVB HYHA

SVB-HYHA
HYBRID IMPLANT

1 mm machined neck

VOLUTION SVB C

SVB-C
NECK MACHINED IMPLANT

Full surface treatment

VOLUTION SVB

SVB
INTEGRAL IMPLANT

ø	heights (mm)					implant thread (mm)	connection	platform (mm)	hex (mm)	thread
3.3	8	10	11.5	13	16	large double thread 0.9	internal hex	3.2	2.1	1/72

CONNECTORS

H	*cod.*
25	HDH21S
30	HDH21L

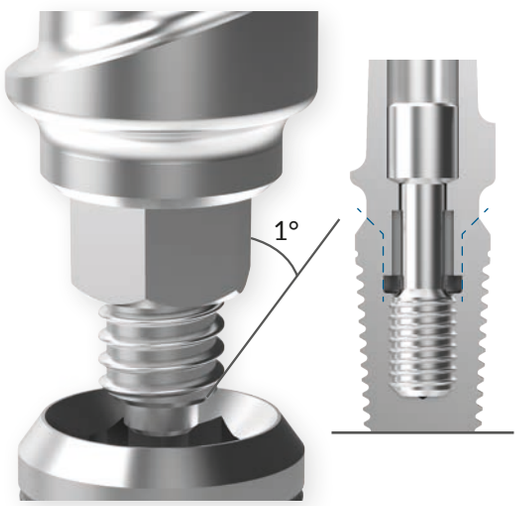
Material: Surgical steel

PROSTHETIC COMPONENTS

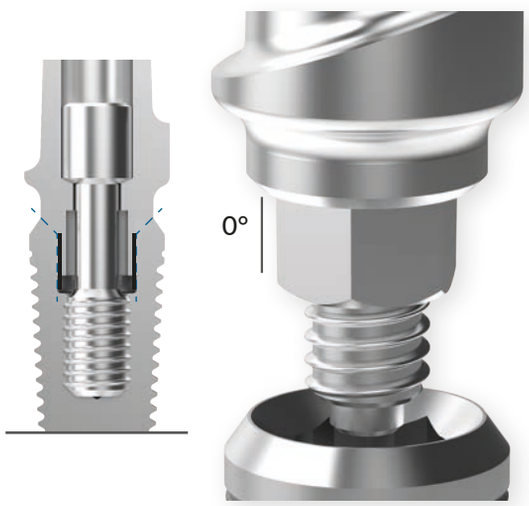
IMPLANT CONNECTION

Prosthetic components with **Friction Fit** connection have been developed for **SVB** and **NHSI** implant systems with **internal hex** connection.
This connection ensures a **"cold fusion"** between implant and abutment if the retaining screw has been tightened at 30 Ncm. It eliminates micro movements and reduces bacterial infiltration between implant and abutment.

FRICTION FIT
connection with 1° angle
on the abutment



WITHOUT FRICTION FIT
with straight abutment wall



MANAGEMENT OF SOFT TISSUES

The following configurations are available for improved soft tissue management.

STRAIGHT PROFILE

A S

CONCAVE PROFILE

SURGICAL SCREWS

Material: Ti-6Al-4V

ø	*thread*	*code*
3,5	1/72	S1BNCS
5	1/72	S1BNCSL

Available as spare parts
S1BNCS provided with the implant

PROSTHETIC SCREWS

Material: Ti-6Al-4V

code
S1BRS1

For abutments thread 1/72

code
S1BRS2

For comp MUA thread 1/72

code
S1BDTRS

Long for transfer thread 1/72

code
S1BRS1T6

Prosthetic screws torx

HEALING SCREWS

Material: Ti-6Al-4V

ø	*H*	*code*
3.5	3	S1BN3530HC
3.5	4.5	S1BN3545HC
3.5	6	S1BN3560HC

ø	*H*	*code*
3.5	1	S1BN3510HCC
3.5	3	S1BN3530HCC
3.5	4.5	S1BN3545HCC
3.5	6	S1BN3560HCC

With flared profile

ANALOG

Material: Ti-6Al-4V

code
S1BNIA

INDIRECT IMPRESSION TRANSFER

Materiale: Ti-6Al-4V

ø	*code*
3,5	S1BN135ITC

Screw included: S1BRS1
Indirect transfer cap included

code
ITC

POM-C indirect transfer cap

ø	*code*
3.5	S1BN1M35

Multifunction abutment with flared profile
Screw included: S1BRS1

ø	*cod*
3.5	S1BN1A35

Multifunction abutment
Screw included: S1BRS1

DIRECT IMPRESSION TRANSFER

Material: Ti-6Al-4V • Screw included: S1BDTRS

ø	code
3.5	S1BNDT35

ø	code
5	S1BNDT403

3-components for disparallel systems

S1BN1A35 and S1BN1M35 may also be used as direct impression transfers, with the additional purchase of the specific screw S1BDTRS

TEMPORARY STRAIGHT ABUTMENTS

Screw included: S1BRS1

ø	code
3.5	S1BN135PP

Material: PEEK

ø	code
3.5	S1BN135P

Anti rotation in TI-6Al-4V

ø	code
3.5	S1BN135PR

Rotation in TI-6Al-4V

DEFINITIVE STRAIGHT ABUTMENTS | ANATOMIC

Material: Ti-6Al-4V • Screw included: S1BRS1

ø	code
3.5	S1BN135FF

Friction Fit

ø	H	code
4	1	S1BN1140
4	3	S1BN1340

Anatomic without Friction Fit

ø	H	code
4	1	S1BN1140F
4	3	S1BN1340F

Anatomic with Friction Fit

code
S1BN1TS

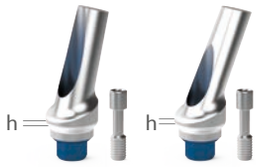
Abutments for welded technique

DEFINITIVE ANGULATED ABUTMENTS | ANATOMIC

Material: Ti-6Al-4V • Screw included: S1BRS1

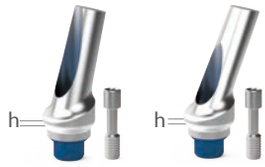
ø		H	code
4	15°	1	S1BN211540
4	15°	3	S1BN231540
4	25°	1	S1BN212540
4	25°	3	S1BN232540

Without Friction Fit



ø		H	code
4	15°	1	S1BN211540F
4	15°	3	S1BN231540F
4	25°	1	S1BN212540F
4	25°	3	S1BN232540F

Friction Fit



CASTABLE ABUTMENTS

Material: POM-C • Screw included: S1BRS1

ø	code
3,5	S1BN3PCR35

Rotating

ø	code
3,5	S1BN3PC35

Non rotating

ø	code
3,5	S1BN3PTC45

Titanium base: TI-6I-4V

STICKING BASES *Digital libraries available*

Material: Ti-6AI-4V • Screw included: S1BRS1

ø	code
3.5	S1BN135F

Friction Fit with emergence profile

ø	code
3.5	S1BN135R

Rotating with emergence profile

ø	code
3.5	S1BN135FS

Friction Fit without emergence profile

ø	code
3.5	S1BN135RS

Rotating without emergence profile

MUA ABUTMENTS *Components page 38-39*

Material: Ti-6AI-4V

H	code
1	S1BN41
2	S1BN42
3	S1BN43
4	S1BN44
5	S1BN45
6	S1BN46

Tighten with HDH20 driver (page 58)
Mounter included

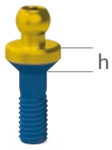
H	code
18° 0/2	S1BN518
30° 0/2	S1BN532

Mounter and S1BRS2 screw included

BALL ABUTMENTS *Material: Ti-6AI-4V • CAH and CAT included*

ø	H	cod
4	1	S1BN61
4	2	S1BN62
4	3	S1BN63
4	4	S1BN64
4	5	S1BN65

TIN Treatment on the gold part
Tighten with MDS or MDL screwdriver (page 59)



cod
CAH

Containment ring

cod
CALT

Nylon containment cap

IRETOR *iRETOR accessories page 37*

H	*code*
0	S1BN80
1	S1BN81
2.5	S1BN825
3.5	S1BN835
4.5	S1BN845
6.5	S1BN865

Tighten with 8393 screwdriver (page 60)
TIN Treatment on the gold part
Ring and cap not included

COMPONENTS FOR DIGITAL FLOW

Implant libraries available on the site https://www.en.ires.dental/media-kit/

DIGITAL ANALOG

Material: Ti-6Al-4V

code
S1BNDIA

SCAN ABUTMENT

Material: Ti-6Al-4V • Screw included: S1BRS1

	code
standard	S1BNSA
long	S1BNSAL

T-BASE

Material: Ti-6Al-4V • Screw included: S1BRS1

ø 3,7 shoulder 0,4 cuff		*code*
non rotating	0.8	S1BN11DCTB
rotating	0.8	S1BN11DCTBR

ø 4,5 shoulder 0,8 cuff		*code*
non rotating	1.8	S1BN12DCTB50
rotating	1.8	S1BN12DCTB50R

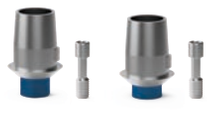
ø 3,7 shoulder 0,4 cuff		*code*
non rotating	1.8	S1BN12DCTB
rotating	1.8	S1BN12DCTBR

ø 4,5 shoulder 0,8 cuff		*code*
non rotating	2.8	S1BN14DCTB50
rotating	2.8	S1BN14DCTB50R

ø 3,7 shoulder 0,4 cuff		*code*
non rotating	2.8	S1BN14DCTB
rotating	2.8	S1BN14DCTBR

	code
non rotating	S1BN1DTB
rotating	S1BN1DTBR

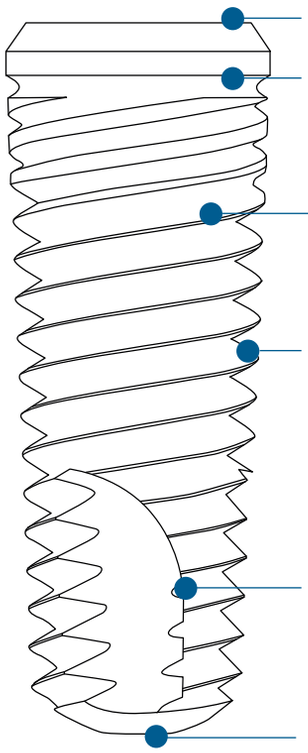
CEREC	*code*
non rotating	S1BN1DTBC
rotating	S1BN1DTBCR



	code
On request	S1BRS1T6

SHAPEONE

EXCELLENT PRIMARY STABILITY
ALSO IN BONE D4



Platform switching

1 mm machined neck

Self tapping conical body

60° triple thread over the entire body implant **with a pitch of 1.8 mm**

3 apical aggressive cuts provide a better primary stability and centering of the implant and the possibility to change direction during its insertion

Apex aggressive but rounded to protect the Schneider's membrane

SHAPEONE BC

S1B-C
NECK MACHINED

ø	heights (mm)						implant thread (mm)	connection	platform (mm)	hex (mm)	thread
3.7		8	10	11.5	13	16	triple thread 0.6	internal hex	3.5	2.5	1/72
4.1	6.5	8	10	11.5	13	16					
4.7	6.5	8	10	11.5	13	16					

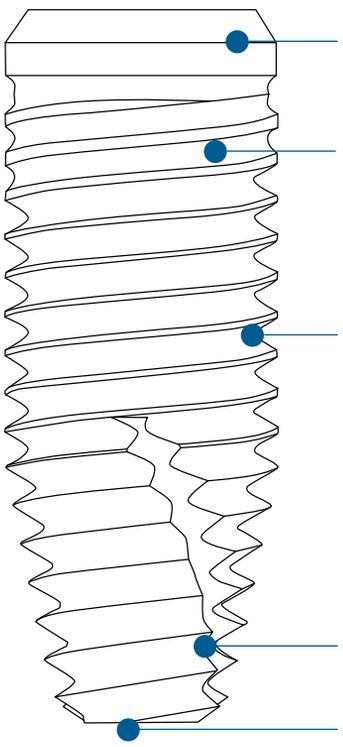
DRIVERS

H	*cod.*
25	HDH25S
30	HDH25L

Material: Surgical steel

iMAX

UNIVERSAL SYSTEM
FOR ALL TYPES OF BONES



Platform switching

Cylindrical body

60° double thread over the entire body implant with a **pitch of 1.2 mm** (0.6 mm/thread); each turn allows to go down of 1.2 mm, speeding up the insertion phase

2 apical cuts helicoidal

Conical apex flat tip

Machined surface on **1/3** of the length

iMAX NHSI HYHA

NHSI-HYHA
HYBRID IMPLANT

1 mm machined neck

iMAX NHSI C

NHSI-C
NECK MACHINED

ø	heights (mm)						implant thread (mm)	connection	platform (mm)	hex (mm)	thread
3.7		8	10	11.5	13	16	fine double thread 0.6	internal hex	3.5	2.5	1/72
4.1	6.5	8	10	11.5	13	16					
4.7	6.5	8	10	11.5	13	16					
5.2	6.5	8	10	11.5	13						

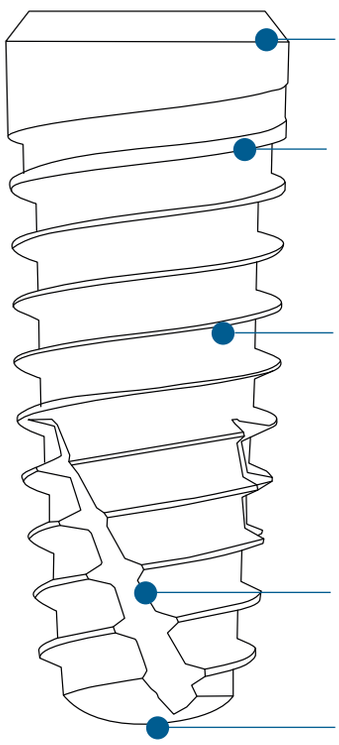
DRIVERS

H	*cod.*
25	HDH25S
30	HDH25L

Material: Surgical steel

VOLUTION

LARGE DOUBLE THREAD IMPLANT
FOR BETTER INSERTION FACILITY



- **Platform switching**
- Implant with ogival design
- Pronounced spires with **cutting profile.** Higher primary stability
- **3 apical cuts** helicoidal
- Conical apex with rounded tip

Machined surface on **1/3** of the length

VOLUTION SVB HYHA

SVB-HYHA
HYBRID IMPLANT

1 mm machined neck

VOLUTION SVB C

SVB-C
NECK MACHINED

Full surface treatment

VOLUTION SVB

SVB
INTEGRAL IMPLANT

ø	heights (mm)						implant thread (mm)	connection	platform (mm)	hex (mm)	thread
3.7		8	10	11.5	13	16	large double thread 0.9	internal hex	3.5	2.5	1/72
4.1	6.5	8	10	11.5	13	16					
4.7	6.5	8	10	11.5	13	16					
5.2	6.5	8	10	11.5	13						

DRIVERS

H	*cod.*
25	HDH25S
30	HDH25L

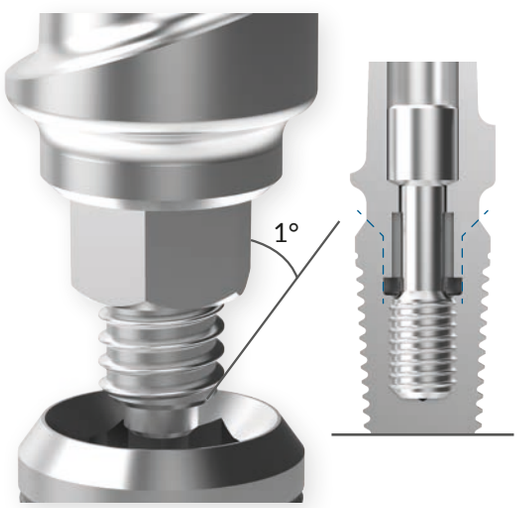
Material: Surgical steel

PROSTHETIC COMPONENTS

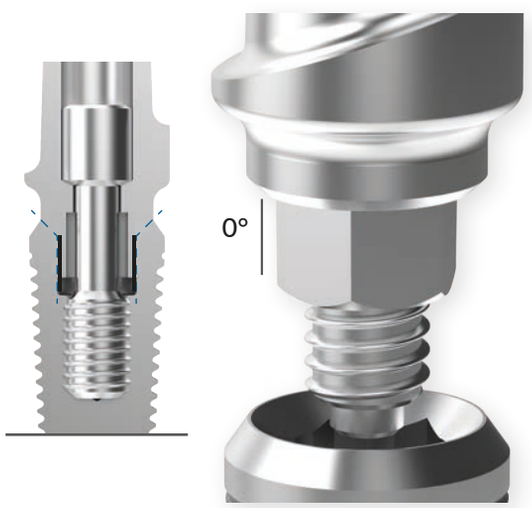
IMPLANT CONNECTION

Prosthetic components with **Friction Fit** connection have been developed for **S1B**, **NHSI** and **SVB** implant systems with **internal hex** connection.
This connection ensures a **"cold fusion"** between implant and abutment if the retaining screw has been tightened at 30 Ncm. It eliminates micro movements and reduces bacterial infiltration between implant and abutment.

FRICTION FIT
connection with 1° angle
on the abutment



WITHOUT FRICTION FIT
with straight abutment wall



MANAGEMENT OF SOFT TISSUES

The following configurations are available for improved soft tissue management.

STRAIGHT PROFILE

S PROFILE

CONCAVE PROFILE

45° PROFILE

SURGICAL SCREWS

Material: Ti-6Al-4V

ø	*thread*	*code*
3.5	1/72	S1BCS
5	1/72	S1BCSL

Available as spare parts
S1BCS included in the implant

PROSTHETIC SCREWS

Material: Ti-6Al-4V

code
S1BRS1

For abutment thread 1/72

code
S1BRS2

For MUA thread 1/72

code
S1BDTRS

Long for transfer thread 1/72

code
S1BRS1T6

Torx screw for digital

HEALING SCREWS

Material: Ti-6Al-4V

ø	*H*	*code*
3.5	3	S1B3530HC
3.5	4.5	S1B3545HC
3.5	6	S1B3560HC

ø	*H*	*code*
5	3	S1B5030HC
5	4.5	S1B5045HC
5	6	S1B5060HC

ø	*H*	*code*
3.5	3	S1B3530HCC
3.5	4.5	S1B3545HCC
3.5	6	S1B3560HCC

Flaring profile

ø	*H*	*code*
5	3	S1B5030HCC
5	4.5	S1B5045HCC
5	6	S1B5060HCC

Flaring profile

ø	*H*	*code*
6	3	S1B6030HCC
6	4.5	S1B6045HCC

Flaring profile

ANALOG

Material: Ti-6Al-4V

code
S1BIA

INDIRECT IMPRESSION TRANSFER

Material: Ti-6Al-4V • Screw included: S1BRS1

ø	code
3.5	S1B135ITC

Included indirect transfer cap

ø	code
5	S1B1A50

Multifunction abutment

ø	code
5	S1B150ITC

Included indirect transfer cap

ø	code
5	S1B1M50

Multifunction abutment
with flared profile

code
ITC

Indirect transfer cap
Material: POM-C

DIRECT IMPRESSION TRANSFER

Material: Ti-6Al-4V

ø	code
3.5	S1BDT35

Screw included: S1BDTRS

ø	code
5	S1BDT50

Screw included: S1BDTRS

ø	code
5	S1BDT503

3-components for disparallel systems

S1B1A50 and S1B1M50 may also be used as direct impression transfers, with the additional purchase of the specific screw S1BDTRS

TEMPORARY STRAIGHT ABUTMENTS

Material: Ti-6Al-4V • Screw included: S1BRS1

ø	code
4	S1B140P

Not rotating

ø	code
4	S1B140PR

Rotating

Material: PEEK • Screw included: S1BRS1

ø	code
4	S1B140PP

DEFINITIVE STRAIGHT ABUTMENTS

Material: Ti-6Al-4V • Screw included: S1BRS1

ø	code
3.5	S1B135F
5	S1B150F

Friction Fit

ø	code
4.5	S1B145FS
5.5	S1B155FS

Friction Fit without emergence profile

ø	H	code
4.5	1	S1B1145
4.5	3	S1B1345

Anatomic without Friction Fit

ø	H	code
4.5	1	S1B1145F
4.5	3	S1B1345F

Anatomic with Friction Fit

code
S1B1TS

Rotating abutment for welded technique

ANGLED ABUTMENTS

Material: Ti-6Al-4V • Screw included: S1BRS1

ø		code
4.5	20°	S1B250F

Friction Fit

ø		code
4.5	20°	S1B245FS

Friction Fit without emergence

ANATOMIC DEFINITIVE ANGLED ABUTMENTS

Material: Ti-6Al-4V • Screw included: S1BRS1

ø		H	code
4.5	15°	1	S1B211545
4.5	15°	3	S1B231545
4.5	25°	1	S1B212545
4.5	25°	3	S1B232545

Without Friction Fit

ø		H	code
4.5	15°	1	S1B211545F
4.5	15°	3	S1B231545F
4.5	25°	1	S1B212545F
4.5	25°	3	S1B232545F

Friction Fit

CASTABLE ABUTMENTS

Material: POM-C • Screw included: S1BRS1

ø	code
4.5	S1B3PC45

Not rotating

ø	code
4.5	S1B3PCR45

Rotating

code
S1B3PTC45

Titanium base: TI-6I-4V

STICKING BASES *Digital libraries available*

Material: Ti-6Al-4V • Screw included: S1BRS1

ø	code
4,5	S1B140F

Friction Fit with emergence profile

ø	code
4,5	S1B140R

Rotating with emergence profile

ø	code
3,5	S1B140FS

Friction Fit without emergence profile

ø	code
4,5	S1B140RS

Rotating without emergence profile

MUA ABUTMENTS *Components page 38-39*

Materiale: Ti-6Al-4V

H	code
1	S1B41
2	S1B42
3	S1B43
4	S1B44
5	S1B45
6	S1B46

Mounter included
Tighten with HDH20 driver (page 58)

H	code
18° 0/2	S1B518
30° 0/2	S1B532
30° 2/4	S1B534

Mounter and S1BRS2 screw included

BALL ABUTMENTS *Material: Ti-6Al-4V • CAH and CAT included*

H	code
1	S1B61
2	S1B62
3	S1B63
4	S1B64
5	S1B65

TIN Treatment on the gold part
Tighten with MDS or MDL screwdriver (page 59)

code
CAH

Containment ring

code
CALT

Nylon containment cap

IRETOR *iRETOR accessories page 37*

H	code
0	S1B80
1	S1B81
2.5	S1B825
3.5	S1B835
4.5	S1B845
6.5	S1B865

Tighten with 8393 screwdriver (page 60)
TIN Treatment on the gold part
Ring and cap not included

COMPONENTS FOR DIGITAL FLOW

Implant libraries available on the site https://www.en.ires.dental/media-kit/

DIGITAL ANALOG

Material: Ti-6Al-4V

code
S1BDIA

SCAN ABUTMENT

Material: Ti-6Al-4V • Screw included: S1BRS1

	code
standard	S1BSA
long	S1BSAL

T-BASE

Material: Ti-6Al-4V • Screw included: S1BRS1

ø 3.4 shoulder 0.4	*cuff*	*code*
not rotating	0	S1B00DCTB
rotanting	0	S1B00DCTBR

ø 4.5 shoulder 0.8	*cuff*	*code*
not rotating	1.8	S1B12DCTB50
rotanting	1.8	S1B12DCTBR50

ø 3.7 shoulder 0.4	*cuff*	*cod*
not rotating	0.5	S1B11DCTB
rotanting	0.5	S1B11DCTBR
not rotating	1.8	S1B12DCTB
rotanting	1.8	S1B12DCTBR

ø 5.7 shoulder 1.2	*cuff*	*code*
not rotating	1.8	S1B14DCTB
rotanting	1.8	S1B14DCTBR
not rotating	2.8	S1B14DCTB50
rotanting	2.8	S1B14DCTBR50

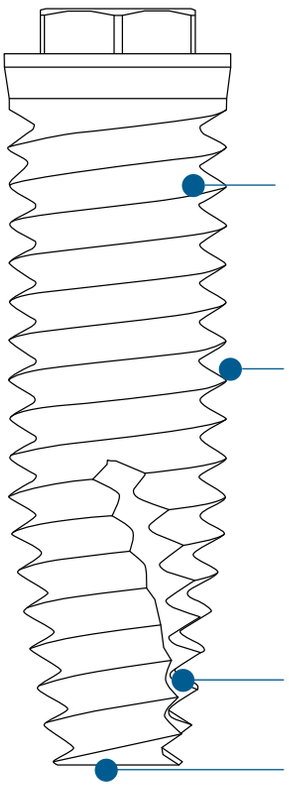
ø 3.7 shoulder 0.5	*cuff*	*code*
not rotating	0.2	S1B1DTB
rotanting	0.2	S1B1DTBR

CEREC	*code*
not rotating	S1B1DTBC
rotanting	S1B1DTBCR

	code
On request	S1BRS1T6

iMAX

UNIVERSAL SYSTEM
FOR ALL TYPES OF BONES



Cylindrical body

60° double thread over the entire body implant with a pitch **of 1,2 mm** (0,6 mm/ thread); each turn allows to go down of 1,2 mm, speeding up the insertion phase

2 apical cuts helicoidal

Conical apex flat tip

Machined surface on **1/3** of the length

iMAX NHSE HYHA

NHSE-HYHA
HYBRID IMPLANT

1 mm machined neck

iMAX NHSE C

NHSE-C
NECK MACHINED

ø	heights (mm)				implant thread (mm)	connection	platform (mm)	hex (mm)	thread
3.3	10	11.5	13	16	fine double thread 0.6	external hex	3.5	2.4	1.6

DRIVERS

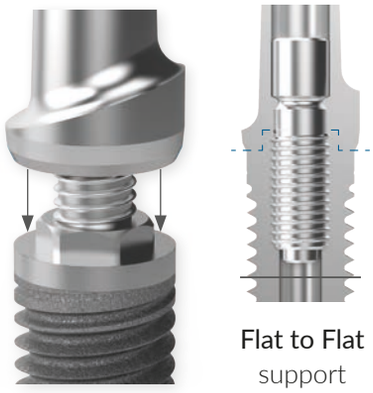
H	*code*
25	HDH24S
30	HDH24L

Material: Surgical steel

PROSTHETIC COMPONENTS

IMPLANT CONNECTION

A **“flat to flat”** connection for external hex is especially suitable for **NHSE** implant systems.



Flat to Flat
support

SURGICAL SCREWS

Material: Ti-6Al-4V

ø	*thread*	*code*
3.5	1.6	S1EHNCS

Provided with the implant
Available as spare parts

PROSTHETIC SCREWS

Material: Ti-6Al-4V

code
S1EHNRS1

For abutment thread 1.6 mm

code
S1EHNRS2

For abutment thread 1.6 m

code
S1EHNDTRS

Long for transfer thread 1.6 mm

code
S1EHNRS1T6

Torx screw for digital

HEALING SCREWS

Material: Ti-6Al-4V

ø	*H*	*code*
3.5	3	S1EHN3530HC
3.5	4.5	S1EHN3545HC
3.5	6	S1EHN3560HC

ANALOG

Material: Ti-6Al-4V

code
S1EHNIA

DIRECT IMPRESSION TRANSFER

Material: Ti-6Al-4V • Screw included: S1EHNDTRS

ø	cod
3.5	S1EHNDT35

ø	cod
3.2	S1EHN1A35L

Multifunction

TEMPORARY STRAIGHT ABUTMENTS

Material: Ti-6Al-4V • Screw included: S1EHNRS1

ø	cod
3.5	S1EHN135P

Not rotating

ø	cod
3.5	S1EHN135PR

Rotating

DEFINITIVE STRAIGHT ABUTMENTS

Material: Ti-6Al-4V • Screw included: S1EHNRS1

ø	cod
3.5	S1EHN1A35

Multifunction

ø	cod
4	S1EHN140

Not rotating

ø	H	cod
4	1	S1EHN1135
4	3	S1EHN1335

Anatomic

cod
S1EHN1TS

Abutments for welded technique

STICKING BASES

Material: Ti-6Al-4V • Screw included: S1EHNRS1

ø	cod
4	S1EHN135

Not rotating

ø	cod
4	S1EHN135R

Rotating

DEFINITIVE ANGLED ABUTMENTS

Material: Ti-6Al-4V • Screw included: S1EHNRS2

ø		H	cod
4	15°	1	S1EHN211540
4	15°	3	S1EHN231540
4	25°	1	S1EHN212540
4	25°	3	S1EHN232540

CASTABLE ABUTMENTS

Material: POM-C • Screw included: S1EHNRS1

ø	cod
3.5	S1EHN3PC35

Not rotating

ø	cod
4	S1EHN3PCR35

Rotating

MUA ABUTMENTS *Components page 38-39*

Material: Ti-6Al-4V

ø	H	cod
3.5	1	S1EHN41
3.5	2	S1EHN42
3.5	3	S1EHN43
3.5	4	S1EHN44
3.5	5	S1EHN45

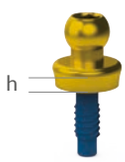
Mounter included
Tighten with HDH20 driver (page 58)

ø	H		cod
3.5	18°	0/2	S1EHN518
3.5	30°	0/2	S1EHN532

Mounter and S1EHNRS2 screw included

BALL ABUTMENTS *Material: TI-6Al-4V • CAH and CAT included*

ø	H	cod
3.5	1	S1EHN61
3.5	2	S1EHN62
3.5	3	S1EHN63
3.5	4	S1EHN64



TIN Treatment on the gold part
Tighten with MDS or MDL screwdriver (page 59)

cod
CAH

Containment ring

cod
CALT

Nylon containment cap

IRETOR *iRETOR accessories page 37*

H	cod
0	S1EHN80
1	S1EHN81
2.5	S1EHN825
3.5	S1EHN835
4.5	S1EHN845
6.5	S1EHN865

Tighten with 8393 screwdriver (page 60)
TIN Treatment on the gold part
Ring and cap not included

COMPONENTS FOR DIGITAL FLOW

Implant libraries available on the site https://it.ires.dental/media-kit/

DIGITAL ANALOG

Material: Ti-6Al-4V

cod
S1EHNDIA

SCAN ABUTMENT

Material: Ti-6Al-4V • Screw included: S1EHNRS1

cod
S1EHNSA

T-BASE

Material: Ti-6Al-4V • Screw included: S1EHNRS1

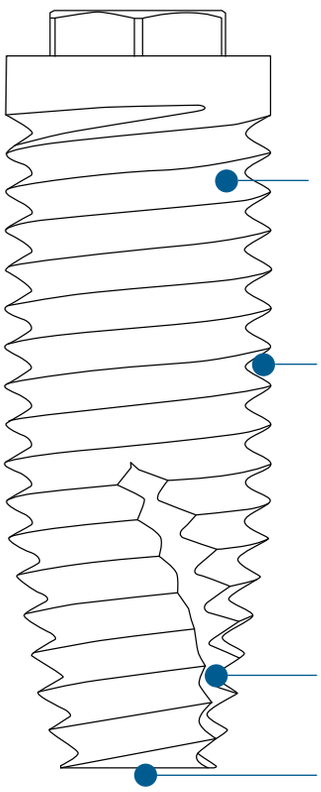
	cod
non rotating	S1EHN1DTB
rotating	S1EHN1DTBR

cod	
On request	S1EHNRS1T6

Colored internal prosthetic part

iMAX

UNIVERSAL SYSTEM
FOR ALL TYPES OF BONES



Cylindrical body

60° double thread over the entire body implant with a **pitch of 1.2 mm** (0.6 mm/ thread); each turn allows to go down of 1.2 mm, speeding up the insertion phase

2 apical cuts helicoidal

Conical apex flat tip

Machined surface on **1/3** of the length

iMAX NHSE HYHA

NHSE-HYHA
IBRID IMPLANT

1 mm machined neck

iMAX NHSE C

NHSE-C
NECK MACHINED

ø	heights (mm)						implant thread (mm)	connection	platform (mm)	hex (mm)	thread
3.7	6.5	8	10	11.5	13	16	fine double thread 0.6	external hex	4.1	2.7	2.0
4.1	6.5	8	10	11.5	13	16					
4.7	6.5	8	10	11.5	13	16					
5.2	6.5	8	10	11.5	13	16					

DRIVERS

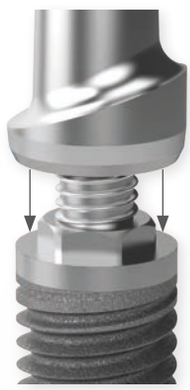
H	*cod.*
25	HDH27S
30	HDH27L

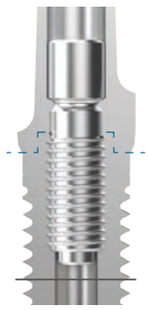
Material: Surgical steel

PROSTHETIC COMPONENTS

IMPLANT CONNECTION

A **"flat to flat"** connection for external hex is especially suitable for **NHSE** implant systems.





Flat to Flat
support

SURGICAL SCREWS

Material: Ti-6Al-4V

ø	*thread*	*code*
4.1	2	S1EHCS

Provided with the implant
Available as spare parts

PROSTHETIC SCREWS

Material: Ti-6Al-4V

code
S1EHRS1

For abutment thread 2 mm

code
S1EHRS2

For abutment thread 2 mm

code
S1EHDTRS

Long for transfer thread 2 mm

code
S1EHRS1T6

Torx screw for prosthesis

HEALING SCREWS

Material: Ti-6Al-4V

ø	*H*	*code*
4.1	3	S1EH4130HC
4.1	5	S1EH4145HC
4.1	6	S1EH4160HC

ø	*H*	*code*
5	3	S1EH5030HC
5	5	S1EH5045HC
5	6	S1EH5060HC

ANALOG

Material: Ti-6Al-4V

code
S1EHIA

DIRECT IMPRESSION TRANSFER

Material: Ti-6Al-4V • Screw included: S1EHDTRS

ø	cod
4.1	S1EHDT41
5	S1EHDT50

ø	cod
5	S1EH1A50L

Multifunction

TEMPORARY ABUTMENT

Material: Ti-6Al-4V • Screw included: S1EHRS1

ø	cod
4.1	S1EH141P

Not rotating

ø	cod
4.1	S1EH141PR

Rotating

DEFINITIVE STRAIGHT ABUTMENTS

Material: Ti-6Al-4V • Screw included: S1EHRS1

ø	cod
5	S1EH1A50

Multifunction

ø	cod
5	S1EH150

Not rotating

ø	H	cod
4.1	1	S1EH1141
4.1	3	S1EH1341

Anatomic

ø	cod
5	S1EH1TS

Abutments for welded technique

STICKING BASES

Material: Ti-6Al-4V • Screw included: S1EHRS1

ø	cod
4.1	S1EH141

Not rotating

ø	cod
4.1	S1EH141R

Rotating

DEFINITIVE ANGLED ABUTMENTS

Material: Ti-6Al-4V • Screw included: S1EHRS2

ø		H	cod
4	15°	1	S1EH211550
4	15°	3	S1EH231550
4	25°	1	S1EH212550
4	25°	3	S1EH232550

CASTABLE ABUTMENTS

Material: POM-C • Screw included: S1EHRS1

ø	code
4,1	S1EH3PC41

ø	cod
4,1	S1EH3PCR41

Rotating

MUA ABUTMENTS *Components page 38-39*

Material: Ti-6Al-4V

ø	H	code
4,1	1	S1EH41
4,1	2	S1EH42
4,1	3	S1EH43
4,1	4	S1EH44
4,1	5	S1EH45

Tighten with HDH20 driver (page 58)
Mounter included

ø		H	code
4,1	18°	0/2	S1EH518
4,1	30°	0/2	S1EH532
4,1	30°	2/4	S1EH534

Mounter and S1EHRS2 screw included

BALL ABUTMENTS *Material: TI-6Al-4V • CAH and CAT included*

ø	H	code
4,1	1	S1EH61
4,1	2	S1EH62
4,1	3	S1EH63
4,1	4	S1EH64

TIN Treatment on the gold part
Tighten with MDS or MDL screwdriver (page 59)

code
CAH

Containment ring

code
CALT

Nylon containment cap

IRETOR *iRETOR accessories page 37*

H	code
0	S1EH80
1	S1EH81
2,5	S1EH825
3,5	S1EH835
4,5	S1EH845
6,5	S1EH865

Tighten with 8393 screwdriver (page 60)
TIN Treatment on the gold part
Ring and cap not included

COMPONENTS FOR DIGITAL FLOW

Implant libraries available on the site https://www.en.ires.dental/media-kit/

DIGITAL ANALOG

Material: Ti-6Al-4V

code
S1EHDIA

SCAN ABUTMENT

Material: Ti-6Al-4V • Screw included: S1EHRS1

code
S1EHSA

T-BASE

Material: Ti-6Al-4V • Screw included: S1EHRS1

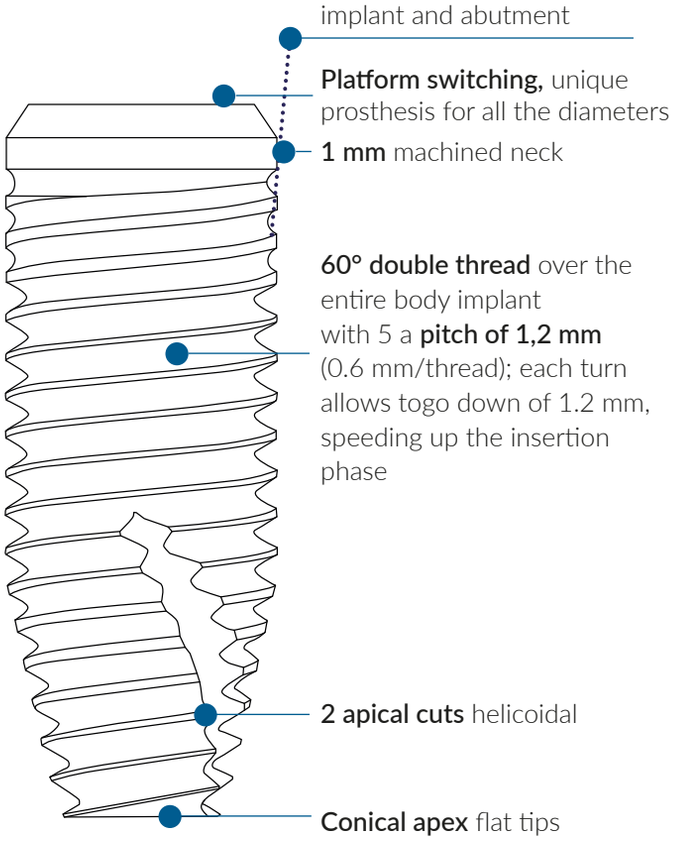
	code
Not rotating	S1EH1DTB
Rotating	S1EH1DTBR

	code
On request	S1EHRS1T6

Colored internal prosthetic part

iMAX NHSIC

UNIVERSAL SYSTEM
FOR ALL TYPES OF BONES



5° cone inclination on implant and abutment

Platform switching, unique prosthesis for all the diameters

1 mm machined neck

60° double thread over the entire body implant with 5 a **pitch of 1,2 mm** (0.6 mm/thread); each turn allows togo down of 1.2 mm, speeding up the insertion phase

2 apical cuts helicoidal

Conical apex flat tips

NHSIC-C

NECK MACHINED

ø	heights (mm)						implant thread (mm)	connection	platform (mm)	hex (mm)	thread
3.3			10	11.5	13	16	fine double thread 0.6	cono-morse	narrow	2,1	1/72
3.7		8	10	11.5	13	16					
4.1	6.5	8	10	11.5	13	16					
4.7	6.5	8	10	11.5	13	16					
5.2	6.5	8	10	11.5	13						

DRIVERS

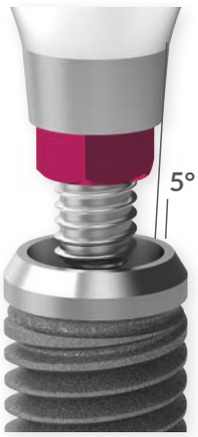
H	*cod.*
25	HDH21S
30	HDH21L

Material: Surgical steel

PROSTHETIC COMPONENTS

IMPLANT CONNECTION

The **NHSIC** conical connection has a **5° angle** on the abutment and on the implant, and an emergence profile for the mucous attack. The **cone-morse** connection creates fissures (1µm) smaller than bacteria, absorbs vibration and chewing stress with the result that it eliminates the unscrewing of the screws.



CONOMETRICS
5° angle on the implant and on the abutment

MANAGEMENT OF SOFT TISSUES

The following configurations are available for improved soft tissue management.

CONCAVE PROFILE

SURGICAL SCREWS

Material: Ti-6Al-4V

code
NHSICNCS

Provided with the implant
Available as spare parts

PROSTHETIC SCREWS

Material: Ti-6Al-4V

code
S1BRS1

For abutment thread 1/72

code
S1BRS2

For MUA thread 1/72

code
S1BDTRS

Long for transfer thread 1/72

code
S1BRS1T6

Torx screw for prosthesis

HEALING SCREWS

Material: Ti-6Al-4V • Screw included: S1BRS1

ø	H	code
4	3	NHSICN4030HC
4	4.5	NHSICN4045HC
4	6	NHSICN4060HC

ANALOG

Material: Ti-6Al-4V

ø	code
4	NHSICNIA

DIRECT TRANSFER IMPRESSION

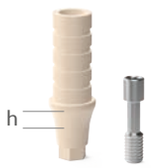
Material: Ti-6Al-4V • Screw included: S1BDTRS

ø	H	code
4	1	NHSICNDT140
4	2	NHSICNDT240
4	4	NHSICNDT440

PEEK TEMPORARY ABUTMENTS

Material: PEEK • Screw included: S1BRS1

ø	H	code
4	1	NHSICN1140PP
4	2	NHSICN1240PP
4	4	NHSICN1440PP



STRAIGHT ABUTMENTS

Material: Ti-6Al-4V • Screw included: S1BRS1

ø	H	code
4	1	NHSICN1140
4	2	NHSICN1240
4	4	NHSICN1440

Not rotating

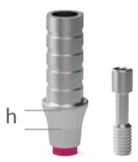
STICKING BASES

Material: Ti-6Al-4V • Screw included: S1BRS1

ø	H	code
4	1	NHSICN1140SB
4	2	NHSICN1240SB
4	4	NHSICN1440SB

Not rotating

ø	H	code
4	1	NHSICN1140RSB
4	2	NHSICN1240RSB
4	4	NHSICN1440RSB



Rotating

ANGLED ABUTMENTS

Material: Ti-6Al-4V • Screw included: S1BRS1

ø		H	code
4	15°	1	NHSICN211540
4	15°	2	NHSICN221540
4	15°	4	NHSICN241540
4	25°	1	NHSICN212540
4	25°	2	NHSICN222540
4	25°	4	NHSICN242540

MUA ABUTMENTS *Components page 38-39*

Material: Ti-6Al-4V

ø	H	code
4	1	NHSICN41
4	2	NHSICN42
4	3	NHSICN43
4	4	NHSICN44

Mounter included
Tighten with HDH20 driver (page 58)

ø		H	code
4.1	18°	0/2	NHSICN518
4.1	30°	0/2	NHSICN532
4.1	30°	2/4	NHSICN534

Mounter and S1BRS2 screw included

BALL ABUTMENTS *Material: TI-6Al-4V • CAH and CAT included*

ø	H	code
4	1	NHSICN61
4	2	NHSICN62
4	3	NHSICN64

TIN Treatment on the gold part
Tighten with MDS or MDL screwdriver (page 59)

code
CAH

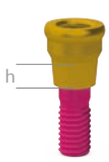
Containment ring

code
CALT

Nylon containment cap

IRETOR *accessories page 37*

H	code
0	NHSICN80
1	NHSICN81
2	NHSICN825
3	NHSICN835
4	NHSICN845
6	NHSICN865



Tighten with 8393 screwdriver (page 60)
TIN Treatment on the gold part
Ring and cap not included

COMPONENTS FOR DIGITAL FLOW

Implant libraries available on the site https://www.en.ires.dental/media-kit/

DIGITAL ANALOG

Material: Ti-6Al-4V

code
NHSICNDIA

SCAN ABUTMENT

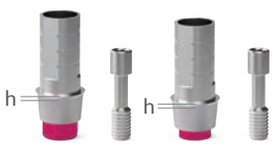
Material: Ti-6Al-4V • Screw included: S1BRS1

	code
standard	NHSICNSA
long	NHSICNSAL

T-BASE

Material: Ti-6Al-4V • Screw included: S1BRS1

	H	*code*
not rotating	1	NHSICN11DTB
not rotating	2	NHSICN12DTB
not rotating	4	NHSICN14DTB
rotating	1	NHSICN11DTBR
rotating	2	NHSICN12DTBR
rotating	4	NHSICN14DTBR



cod	
On request	S1BRS1T6

LINK

Material: Ti-6Al-4V

ø	*H*	*code*
3.5	2	NHSICNL3502
3.5	3	NHSICNL3503

Components for external hex 2.4

ø	*H*	*code*
4.1	3	NHSICNL4103
4.1	4	NHSICNL4104

Components for external hex 2.7

IRETOR ACCESSORIES

Components for the ball abutments of the lines
SVB, NHSI, S1B, NHSE and **NHSIC**

ANALOG

Material: Inox

Qty	*code*
2	144ATP

TRANSFER

Material: Inox - PA

Qty	*code*
2	044CAIP

INSERTION TOOL

code
488EIP

CONTAINER IN TITANIUM

Materiale: Ti-6Al-4V

Qty	*code*
2	141CTP

CAP FOR LAB USE

Material: PA

Qty	*code*
4	143CPN

PARALLELE CAPS

Material: PA

Qty	*pin*	*Kg*	*code*
4	extra soft	0,7	142CPPG
4	soft	0,9	142CPPR
4	standard	1,5	142CPPT
4	strong	1,8	142CPPV

SET

Material: Ti-6Al-4V - PA - EVA

code
192CPC

Set of copings with pins

DISPARALLEL CAPS

Material: PA

Qty	*pin*	*Kg*	*code*
4	extra soft	0,6	143CPG
4	soft	0,8	143CPR
4	standard	1	143CPT
4	strong	1,5	143CPV

SET

Material: Ti-6Al-4V - PA - EVA

code
192CPS

Set of copings without pins

MUA
COMPONENTS

Components for the mua abutments of the lines
SVB, NHSI, S1B, NHSE and **NHSIC**

RETAINING SCREWS

Material: Ti-6Al-4V

code
S1BRS3

For abutment thread 1.4

code
S1BDTRSA

Long retaining screw for MUA transfer thread 1.4

HEALING CAPS

Screw included: S1BRS3

code
S1BHCSRA

Material: TI-6Al-4V

code
S1BHCSRAA

Material: POM-C

ANALOG

Material: Ti-6Al-4V

code
S1BIASRA

IMPRESSION TRANSFER

Material: Ti-6Al-4V • Screw included: S1BRS3

code
S1BITCSRA

Indirect impression transfer

Material: Ti-6Al-4V • Screw included: S1BDTRSA

code
S1BDTCSRA

Direct impression transfer. With long screw

MUA ABUTMENT

ABUTMENT

Material: Ti-6Al-4V • Screw included: S1BRS3

code
S1BPTTA

Temporary straight abutments

code
S1BTTA

Definitive straight abutments

code
S1BPCC

Castable abutments
Material: POM

code
S1BTS

Abutments for welded technique

THREADED

Material: Ti-6Al-4V • Screw included: S1BRS3

code
S1BTTAE

Threaded not rotating

code
S1BTTAFB

Threaded abutment for bar

COMPONENTS FOR DIGITAL FLOW

Implant libraries available on the site https://www.en.ires.dental/media-kit/

DIGITAL ANALOG

Material: Ti-6Al-4V

code
S1BDIASRA

SCAN ABUTMENT

Material: Ti-6Al-4V

	code
standard	S1BSAA
long	S1BSAAL

Screw included: S1BRS3

T-BASE

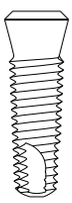
Material: Ti-6Al-4V • Screw included: S1BRS3

code
S1BTTADTB

Rotating

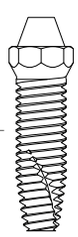
TISSUE LEVEL IMPLANTS

SHAPEONE



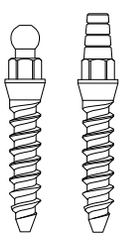
- INTERNAL OCTAGON **ø 3.7 - 4.1 - 4.7**
- INTERNAL HEX **ø 3.7 - 4.1 - 4.7**

iMAXMUA



- ONE PIECE **ø 3.3 - 3.7 - 4.1**

SHAPEMINI

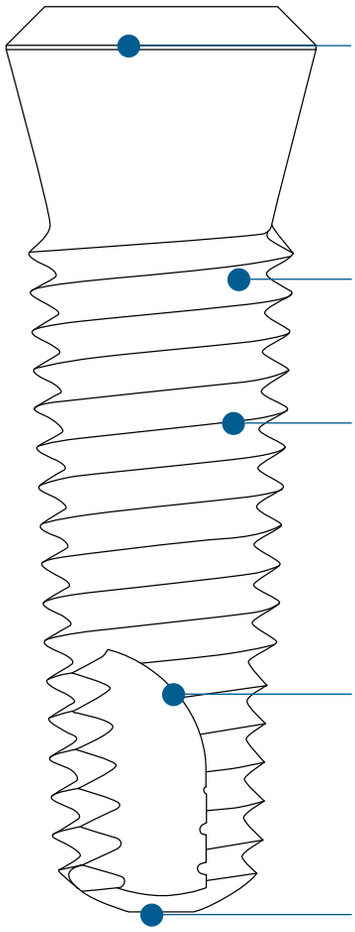


- SINGLE THREAD **ø 2.7**

Dental implants are made of titanium for medical use in compliance with current regulations.

SHAPEONE

EXCELLENT PRIMARY STABILITY
ALSO IN BONE D4



Platform switching

Self tapping conical body

60° double thread over the entire body implant with a **pitch of 1.2 mm**

3 apical aggressive **cuts** provide a better primary stability and centering of the implant and the possibility to change direction during its insertion

Apex aggressive but rounded to protect the Schneider's membrane

SHAPEONE TC

S1T-C

NECK MACHINED

Mounter S1T1A50 included

ø	heights (mm)							implant thread (mm)	connection	platform (mm)	octagon (mm)	thread
3.7			8	10	11.5	13	16	fine double thread 0.6	internal octagon	4.8	3.1	2
4.1	4.5	6.5	8	10	11.5	13	16					
4.7	4.5	6.5	8	10	11.5	13	16					

DRIVERS

H	*code*
25	HDH31S
30	HDH31L

Material: Surgical steel

PROSTHETIC COMPONENTS

IMPLANT CONNECTION

For the **S1T** line with internal **octagonal connection**, prosthetic components with cone inclined at 8° have been developed that prevent bacterial infiltration between implant and abutment.

INTERNAL OCTAGON
8° angle on the implant and on the abutment

SURGICAL SCREWS

Material: Ti-6Al-4V

ø	*H*	*code*
4.8	2	S1TCS
4.8	5	S1TCSH

Available as spare parts
S1TCS screw included

PROSTHETIC SCREWS

Material: Ti-6Al-4V

code
S1TRS1

For abutment thread 2 mm

code
S1TRS2

For abutment thread 2 mm

code
S1TDTRS

Long for transfer thread 2 mm

code
S1TRS1T6

Torx screw for digital

ANALOG

Material: Ti-6Al-4V

code
S1TIA

IMPRESSION TRANSFER

Material: Ti-6Al-4V

ø	code
5	S1T1A50

Multifunction abutment
Indirect impression transfer
Screw included: S1TRS1

ø	code
5	S1T1A50L

Multifunction abutment
Direct impression transfer
Screw included: S1TDTRS

CASTABLE ABUTMENTS

Material: POM-C + Ti-6Al-4V • Screw included: S1TRS1

ø	code
5	S1T3PC50

Non rotating

ø	code
5	S1T3PCR50

Rotating

ABUTMENTS

Material: Ti-6Al-4V

ø	code
4,5	S1T140

Straight conometric connection abutment
Screw included: S1TRS1

ø	code
4,5	S1T240

20° angled conometric connection abutment
Screw included: S1TRS2

BALL ABUTMENTS *Material: TI-6Al-4V • CAH and CAT included*

ø	H	code
4,5	0	S1T60
4,5	1	S1T61
4,5	2	S1T62

TIN Treatment on the gold part
Tighten with MDS or MDL screwdriver (page 59)

code
CAH

Containment ring

code
CALT

Nylon containment cap

COMPONENTS FOR DIGITAL FLOW

Implant libraries available on the site https://www.en.ires.dental/media-kit/

DIGITAL ANALOG

Material: Ti-6Al-4V

code
S1TDIA

SCAN ABUTMENT

Material: Ti-6Al-4V • Screw included: S1TRS1

code
S1TSA

T-BASE

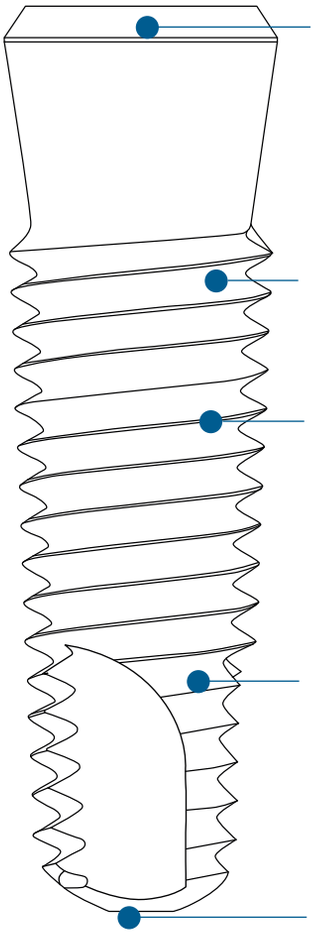
Material: Ti-6Al-4V • Screw included: S1TRS1

	code
not rotating	S1T1DTB
rotating	S1T1DTBR

	code
On request	S1TRS1T6

SHAPEONE

EXCELLENT PRIMARY STABILITY
ALSO IN BONE D4



Platform switching

Self tapping conical body

60° triple thread over the entire body implant with a **pitch of 1,8 mm**

3 apical aggressive **cuts** provide a better primary stability and centering of the implant and the possibility to change direction during its insertion

Apex aggressive but rounded to protect the Schneider's membrane

SHAPEONE TN C

S1TN-C

NECK MACHINED

ø	heights (mm)							implant thread (mm)	connection	platform (mm)	hex (mm)	thread
3.7			8	10	11.5	13	16	fine triple thread 0.6	internal hex	3.5	2.5	1/72
4.1	4.5	6.5	8	10	11.5	13	16					
4.7	4.5	6.5	8	10	11.5	13	16					

DRIVERS

H	*code*
25	HDH25S
30	HDH25L

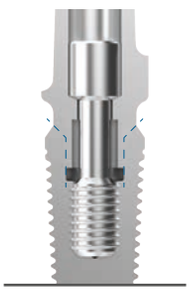
Material: Surgical steel

PROSTHETIC COMPONENTS

IMPLANT CONNECTION

Prosthetic components with **Friction Fit** connection have been developed for **S1TN** implant systems with **internal hex** connection. This connection ensures a "**cold fusion**" between implant and abutment if the retaining screw has been tightened at 30 Ncm. It eliminates micro movements and reduces bacterial infiltration between implant and abutment.

The S1TN implant prosthetic is compatible with the S1B, NHSI and SVB implant prosthetic (page 17-21)



UNIKO
Friction Fit
connection with 1° angle on the abutment

PROSTHETIC SCREWS

Material: Ti-6Al-4V

code
S1BRS1

For abutment thread 1/72

code
S1BDTRS

Long for transfer thread 1/72

ANALOG

Material: Ti-6Al-4V

ø	*code*
3.7	S1TNIA37
4.1	S1TNIA41
4.7	S1TNIA47

DIRECT IMPRESSION TRANSFER

Material: Ti-6Al-4V • Screw included: S1BDTRS

ø	*code*
3.5	S1TN1A35L
3.7	S1TN1A37L
4.1	S1TN1A41L
4.7	S1TN1A47L

Mounter transfer definitive straight abutment

INDIRECT IMPRESSION TRANSFER

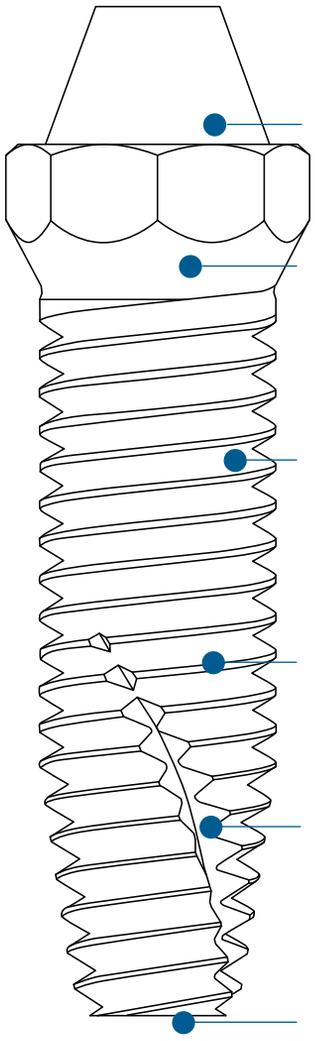
Material: Ti-6Al-4V • Screw included: S1BRS1

ø	*code*
3.5	S1TN1A35
3.7	S1TN1A37
4.1	S1TN1A41
4.7	S1TN1A47

Mounter transfer definitive straight abutment

iMAXMÚA

ONEPIECE
FOR IMMEDIATE LOADING



Hole for retaining screw
Retention screw Increased diameter for high biomechanical safety

Machined neck

Cylindrical body

Single sharp thread at **60°** along the entire body of the implant for better force distribution, ensuring optimal stability, with a total pitch of **1.2 mm**.

3 apical helicoidal cuts

Conical flat tip apex

NHSM00-HYHA
HYBRID IMPLANT 0°

Mounter NHSMM incluso

NHSM18-HYHA
HYBRID IMPLANT 18°

NHSM30-HYHA
HYBRID IMPLANT 30°

ø		heights (mm)					
3.3	0°	4.5	6	8	10	11.5	13
3.7	0°	4.5	6	8	10	11.5	13
4.1	0°	4.5	6	8	10	11.5	13

implant thread (mm)	connection	platform
double	one piece	4.3

ø			implant thread (mm)			spira
3.7	18°	30°	11,5	13	16	double
4.1	18°	30°	11,5	13	16	double

connection (mm)	platform
one piece	4.3

DRIVERS

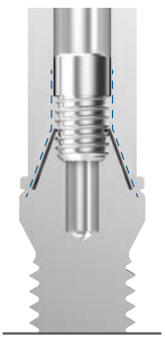
code
NHSMHDH

Implant driver
Material: Surgical steel

PROSTHETIC COMPONENTS

IMPLANT CONNECTION

There is no connection between implant and abutment in **NHSM ONEPIECE** system and this allows to **completely eliminate bacterial infiltration**. OnePiece connection is suitable for immediate loading.



ONE PIECE
No connection
between implant
and abutment

RETAINING SCREWS

Material: Ti-6Al-4V

code	
NHSMRS1	For abutment thread 1/72

code	
NHSMDTRS	Long for transfer thread 1/72

HEALING CAPS

Screw included: NHSMRS1

code	
NHSMHCSRA	*Material: TI-6Al-4V*

code	
NHSMHCSRAA	*Material: POM-C*

ANALOG

Material: Ti-6Al-4V

code	
NHSMIASRA	

IMPRESSION TRANSFER

Material: Ti-6Al-4V

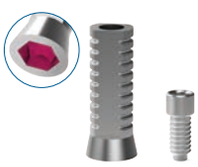
code	
NHSMITCSRA	Indirect *Screw included: NHSMRS1*

code	
NHSMDTCSRA	Direct *Screw included: NHSMDTRS*

THREADED

Material: Ti-6Al-4V • Screw included: NHSMRS1

code	
NHSMTTAE	Threaded not rotating

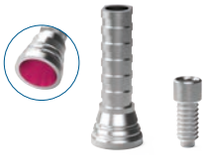


code	
NHSMTTAFB	Threaded abutments for bar

ABUTMENT

Material: Ti-6Al-4V • Vite inclusa: NHSMRS1

cod	
NHSMPTTA	Temporary straight abutments



cod	
NHSMTTA	Definitive straight abutments

cod	
NHSMPCC	Castable abutment

cod	
NHSMTS	Abutments for welded technique

COMPONENTS FOR DIGITAL FLOW

Implant libraries available on the site https://www.en.ires.dental/media-kit/

DIGITAL ANALOG

Material: Ti-6Al-4V

code
NHSMDIASRA

SCAN ABUTMENT

Material: Ti-6Al-4V

code
NHSMSAA

Screw included: NHSMRS1

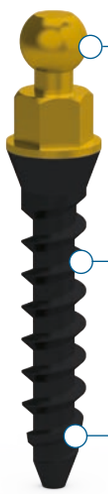
T-BASE

Material: Ti-6Al-4V • Screw included: NHSMRS1

code
NHSMTTADTB

SHAPEMINI

SELF-TAPPING IMPLANT WITH **SINGLE THREAD**



Ball attachment system, ideal for overdenture

Self-tapping cylindrical body with single thread, pitch **of 1.2** mm

Thread with lower angle of **43°** and upper of **23°**

SHAPEMINI **SM27YY** YY=HEIGHT

TIN BALL ATTACHMENT SYSTEM

ø	heights (mm)					Implant thread	connection
2.7	8	10	11.5	13	16	single	TIN ball attachment

COMPONENTS **PROSTHETIC**

ANALOG

Material: Ti-6Al-4V

code
SMIA

CASTABLE ABUTMENT

Material: POM-C

code
SMC

code
CAH

Containment ring

code
CALT

Nylon containment cap

Connection for abutment cementation

Self-tapping cylindrical body with single thread, pitch **of 1.2** mm

Thread with lower angle of **43°** and upper of **23°**

SHAPEMINI **SM27YYF** YY=HEIGHT

IMPLANT WITH FIXED ABUTMENT

ø	heights (mm)					Implant thread
2.7	8	10	11.5	13	16	single

COMPONENTS **PROSTHETIC**

ANALOG

Material: Ti-6Al-4V

code
SMIAF

STRAIGHT ABUTMENT

Material: POM-C

code
SMF

IMPLANT SYSTEMS

SURFACE TREATMENT

There is a relevant scientific literature* on how surface roughness characteristics influence cell behaviour. Compared to a smooth surface, topographical patterns smaller in size than a fibroblast cell (micro and nano topography) orient the arrangement of the cells and stimulate osteoblastic and platelet activity, accelerating the production of extracellular matrix and bone regeneration, and therefore the osseointegration of the dental implant.

The three **fundamentals of surface treatment of dental implants** from a biological point of view are:

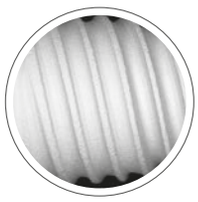
1. **control of surface topography** to stimulate cellular response in an osteogenic direction;
2. **control of the chemical composition of the surface** to promote cell colonization;
3. **control of biological contamination** from adherent endotoxins so as not to interfere with the natural inflammatory response.

For the surface treatment a sand-blasting process was used followed by a double acid attack. In the images, increasing the magnification, it can be seen how the macroscopic aspects of the screw (spire, cutting SLA surface treatment edge) are not affected by the treatment and that the surface is free from processing residue. The dual-beam roughness typical of SLA treatment can be clearly observed, which contains large cavities due to large grit blasting on which is superimposed the micro-roughness due to treatment

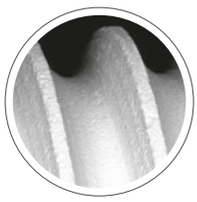
with acids. The micro-roughness illustrated in the figures highlights the typical three-dimensional topography, which gives these surfaces “sponge-like” characteristics that are the basis of their excellent clinical performance In fact, the very short peakto- peak distance, about 1 micrometer, stimulates both the activity of osteogenic cells and the capillary penetration of the blood in the surface structure, offering very favorable characteristics to stimulate bone regeneration, as described in many articles on this topic. This unique combination of long-range roughness (large grit sand-blasting) and short-range (acid etching) is a substrate favorable to cell regrowth that adequately promotes cell differentiation. **The level of roughness is Ra 1.42 ± 0.12.**

HYHA — HYBRID IMPLANT

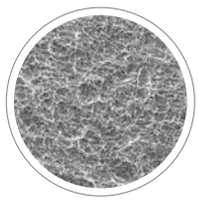
Partial surface treatment on the body implant with hyaluronic acid. Cold plasma decontamination*



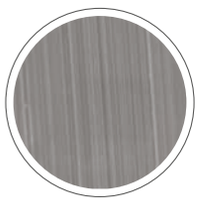
MAG 52 X
WD 11.5 mm
EHT 20.00 kV
Signal A CZ BSD



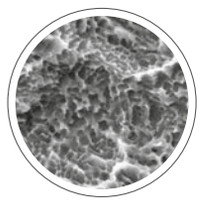
MAG 200 X
WD 11.0 mm
EHT 20.00 kV
Signal A CZ BSD



MAG 1.50 K X
WD 11.5 mm
EHT 20.00 kV
Signal A SE1



Sa 0,50 µm
overall mean value on a measuring area of 30x30 µm
cold plasma decontamination



Sa 1,90 µm
overall mean value on a measuring area of 30x30 µm
sand-blasting, double etching, cold plasma decontamination

C — NECK MACHINED

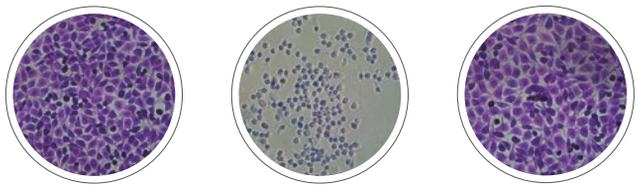
Surface treatment on the body implant

** Valutazione della composizione chimica superficiale, della morfologia, della citotossicità e dell'adesione cellulare su impianti dentali. G. Cascardo, C. Cassinelli. Doctor OS 2005 Nov-Dic; 16 (9): 1091. Valutazione comparativa del trattamento di superficie in 5 sistemi implantari. M. Biasotto, M. Cadenaro et al. Università degli studi di Trieste. Quintessence International, Anno 18 – Maggio/Giugno 2002. RAPPORTO ISTISAN 01/15 – Valutazione del trattamento superficiale sulle prestazioni meccaniche a fatica di impianti in titanio plasma-sprayed e titanio sabbiato e mordenzato. Rossella Bedini, Gior-gio de Angelis, Marco Tallarico, Rosario Iealpi, Umberto Romeo, Giuseppe di Cintio 2001, 33 p. RAPPORTO ISTISAN 08/32 – Valutazione microtomografica dell'area di possibile contatto osseo di sei tipologie diverse di impianti dentali. Rossella Bedini, Raffaella Pec-ci, Fabio Di Carlo, Alessandro Quaranta, Francesca Rizzo, Manlio Quaranta, G. Heimke, W. Schulte, B. d'Hoedt, P. Griss, C.M. Büsing, D. Stock. The influence of fine surface structures on the osseo-integration of implants. The International Journal of Artificial Organs 1982; 5(3): 207-212. Guy, M.J. McQuade, M.J. Scheidt, J.C. McPherson III, J.A. Rossmann, T.E. Van Dyke. In vitro attachment of human gingival fibroblasts to endosse-ous implant materials. Journal of Periodontology 1993 Jun; 64(6): 542-546.*

CYTOTOXICITY TEST

EN ISO 10993-5: 2009
Valutazione Biologica dei Dispositivi Medici
Prove per la citotossicità in vitro

After treatment and decontamination, the implants proved to be perfectly cytocompatible, that is devoid of cytotoxic effects against L929 fibroblasts. In all wells, the cells always showed density and morphology fully comparable with those of the negative control. The fibroblasts proliferate homogeneously in contact with the implants as the Material does not release any cytotoxic element. Moreover, multinucleated giantcells were never shown in significantly higher number than the negative control, indicating the absence of effects of an inflammatory type.



negative control | positive control | examined control

COLD PLASMA DECONTAMINATION

After the surface treatment, the implants are cleaned to remove processing residues by washing them with solvents and then subjecting them to a process of surface decontamination with cold plasma (Argon). The partially ionized Argon atoms (inert gas) act as an additional atomic sand-blasting that promotes the removal of organic contaminants and activates the ionization of surface atoms of titanium, improving the wettability of the implant. The treatment conditions adopted on shape1 implants offer the best characteristics considered important, according to the state of current knowledge*, in the processes of implant healing, both in terms of surface morphology and in terms of chemical composition (surface cleaning). Plasma cleaning, packaging in a controlled environment, the absolute respect of “clean” procedures, quality control tests of during the manufacturing process, play a fundamental role in the control of adherent endotoxins (biological cleaning), the main agent of immunological response to implant surfaces.

** Valutazione del rapporto tra costo e qualità della pulizia superficiale di alcuni sistemi implantari in commercio Marco Morra, Clara Cassinelli, Giovanna Cascardo, Daniele Bollati, Nobil Bio Ricerche srl Via Valcastellana 26, 14037, Portacomaro (AT)*

M. Morra, C.Cassinelli, Evaluation of Surface Contamination of Titanium Dental Implants by Lu-Sem: Comparation with XPS Mesurements Surface and Interface Analysts, Vol. 25, 983-984 (1997).

STERILIZATION & PACKAGING

To preserve its integrity, the dental implant is housed in a vertical position inside a titanium cylinder anchored, by means of the closing cap, to the respective vial made of borosilicate glass for pharmaceutical use, complying with the European Pharmacopoeia in force. This vial really ensures the neutrality of the primary packaging due to the absence of release of contaminants during the sterilization phase. It is inserted in a blister of transparent polyglass sealed with heat-sealing lacquer-based Tyvek and packed in a cardboard box that also contains the instructions for use and the labels for the patient records, on which are printed the data that allow product traceability (code and batch number). All the product packaging Materials have been tested, approved and certified. Implants are supplied sterile, in a pack that allows their stability to be guaranteed for 5 years. The sterilization process is performed with gamma rays respecting the standards in force by qualified suppliers who use automated, safe and reliable
systems, with continuous microbiological monitoring of the process.

SURGICAL KIT

ONE SURGICAL KIT
FOR ALL THE IMPLANT SYSTEMS

The purpose of **surgical trays** is to store the instruments used to insert dental implants. The kit can be **carried**, **sterilized** and **kept** in a horizontal position with the lid closed. All the instruments must be cleaned and sterilized before the first use.

The surgical kit and instruments are not sterile at the time of delivery.
The standard kits contain connectors for internal hexagon: connectors for other connections are available upon request.

CSK SURGICAL KIT

code
CSK

code	*description*
DE	drill extender
LD	lance drill
D20M	pilot drill ø 2.0
D2024M	drill ø 2.0|2.4 mm
CSD33	countersink ø 3.3
D2428M	drill ø 2.4|2.8 mm
CSD37	countersink ø 3.7
D2833M	drill ø 2.8|3.3 mm
CSD41	countersink ø 4.1
D3338M	drill ø 3.3|3.8 mm
CSD47	countersink ø 4.7
D3844M	drill ø 3.8|4.4 mm
CSD52	countersink ø 5.2
D4448M	drill ø 4.4|4.8 mm
DS43341M	stop 4.5
DS63341M	stop 6.5
DS83341M	stop 8
DS103341M	stop 10
DS113341M	stop 11.5
DS133341M	stop 13
TWA4	complete ratchet
THDDS	short contra-angle screwdriver for hexagon 1.25 mm
THDDL	long contra-angle screwdriver for hexagon 1.25 mm
HDH21S	connectors short for internal hex 2.1
HDH21L	connectors long for internal hex 2.1
HDH25S	connectors short for internal hex 2.5
HDH25L	connectors long for internal hex 2.5
PP	parallel pin 0°

SMALL SURGICAL KIT

COMPLETE

cod
Ergo Kit Complete

code	*description*
LD	lance drill
D20M	pilot drill ø 2.0
D2024M	drill ø 2.0|2.4 mm
CSD33	countersink ø 3.3
D2428M	drill ø 2.4|2.8 mm
CSD37	countersink ø 3.7
D2833M	drill ø 2.8|3.3 mm
CSD41	countersink ø 4.1
D3338M	drill ø 3.3|3.8 mm
CSD47	countersink ø 4.7
D3844M	drill ø 3.8|4.4 mm
CSD52	countersink ø 5.2
D4448M	drill ø 4.4|4.8 mm
HDH21L	connectors long for internal hex 2.1
HDH25L	connectors long for internal hex 2.5
TWA4	complete ratchet
DE	drill extender
TAPXXX33*	tap ø 3.3
TAPXXX37*	tap ø 3.7
TAPXXX41*	tap ø 4.1
TAPXXX47*	tap ø 4.7
TAPXXX52*	tap ø 5.2
PP	parallel pin 0°
THDDS	short contra-angle screwdriver for hexagon 1.25 mm
THDDL	long contra-angle screwdriver for hexagon 1.25 mm
HDH21S	connectors short for internal hex 2.1
HDH25S	connectors short for internal hex 2.5
MDS	short manual screwdriver for hexagon 1.25 mm
MDL	long manual screwdriver for hexagon 1.25 mm
MDLAA	manual screwdriver for angled torx
DS43341M	stop 4.5
DS63341M	stop 6.5
DS83341M	stop 8
DS103341M	stop 10
DS113341M	stop 11.5
DS133341M	stop 13

*choice of Shapeone or iMAX

BASIC

cod
Ergo Kit Basic

code	*description*
LD	lance drill
D20M	pilot drill ø 2.0
D2024M	drill ø 2.0|2.4 mm
CSD33	countersink ø 3.3
D2428M	drill ø 2.4|2.8 mm
CSD37	countersink ø 3.7
D2833M	drill ø 2.8|3.3 mm
CSD41	countersink ø 4.1
D3338M	drill ø 3.3|3.8 mm
CSD47	countersink ø 4.7
D3844M	drill ø 3.8|4.4 mm
CSD52	countersink ø 5.2
D4448M	drill ø 4.4|4.8 mm
THDDL	long contra-angle screwdriver for hexagon 1.25 mm
HDH21L	connectors long for internal hex 2.1
HDH25L	connectors long for internal hex 2.5
TWA4	complete ratchet

PROSTHETIC KIT

PSK PROSTHETIC KIT	*code*
	PSK

code	*description*
MDXS	extra short manual screwdriver for hexagon 1.25 mm
MDS	short screwdriver hex 1.25 mm
MDL	long screwdriver hex 1.25 mm
MDLAA	angled torx hand screwdriver
TRT	removal tool for abutments
MTRT	manual abutment extractor
HDH20	Implant driver for straight MUA
HDH25M	connector for Shape Mini
THDDS	short prosthetic screwdriver hex 1.25
THDDL	long prosthetic screwdriver hex 1.25
THDDAL	angled torx contra-angle screwdriver
TWA4	ratchet wrench

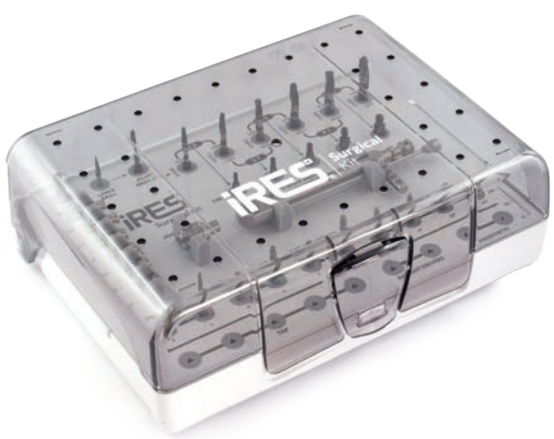
PROCEDURA PER LA GESTIONE DEI KIT

CLEANING

1. **Dismantle** all the compound parts.
2. **Rinse** abundantly with cold or lukewarm water for **2-5 minutes**.
3. Leave the instruments for **10 minutes** in an **ultrasonic** cleaner with a neutral pH enzymatic detergent diluted in water according to the product instructions.
4. **Wash** the instruments with water for **3 minutes**.

STERILIZATION

The guidelines for sterilization are listed below.
Exceeding these sterilization limits may cause deterioration of the plastic components.



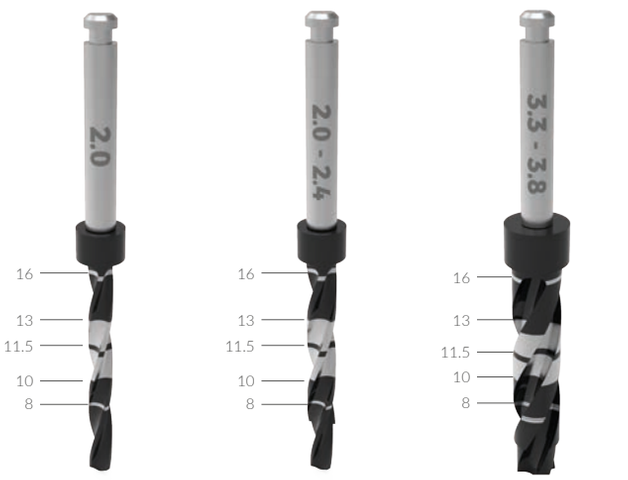
Type of cycle (value)	Temperature (°C - F)	Exposure	Drying time
Pre-vacuum	132 / 270	3 minutes	30 minutes
Pre-vacuum	134 / 273	18 minutes	30 minutes
Gravity	121 / 250	80 minutes	30 minutes

DRILLS

For a proper osteotomy and to maintain the integrity of bone quality, the maximum recommended speed is 800rpm with direct input on drill of saline solution to facilitate cooling. All drills are made of medical stainless steel and subjected to hardening heat treatment. Maximum recommended number of use of the devices 30 times. The helical milling cutters have reference laser markings that identify the depth to reach, until 8 mm with a thin white line, from 10 to 13 mm with a white band in which at half is identified the 11.5 mm height, and finally a thin white line for the 16 mm. This system gives a clear and intuitive glance of the depth level reached by the drill. 4.5 and 6.5mm are not present to avoid confusion in reading the demarcation lines, and being these measures close to the nerve, it is always recommended to use stop by 4.5 and 6.5 mm.

The drills from **2.0 to 2.8/3.3** have a **sharp apex**, The drills from **33/38** - **38/44** - **44/48** have a **flat apex**, they do not increase the height of the cut, but are only used to widen the osteotomy.

They must not be used for cutting, but as an aid for inserting the implant



Cylindrical
ø 2.0

Double cylindrical
ø 2.0/2.4

Double cylindrical
ø 2.4/2.8 - 2.8/3.3
3.3/3.8 - 3.8/4.4
4.4/4.8 mm

DRILL EXTENDER

Material: Surgical steel

code
DE

LANCE DRILL Ø 2

Material: Surgical steel

code
LD

DRILLS H. 36

Material: Surgical steel

ø 2	ø 2.0|2.4	ø 2.4|2.8	ø 2.8|3.3	ø 3.3|3.8	ø 3.8|4.4	ø 4.4|4.8
code	*code*	*code*	*code*	*code*	*code*	*code*
D20M	D2024M	D2428M	D2833M	D3338M	D3844M	D4448M

STOPS FOR DRILLS 2.0 - 2.0/2.4 - 2.4/2.8 - 2.8/3.3

Material: Ti-6Al-4V

h. 4.5
code
DS43341M

h. 6.5
code
DS63341M

h. 8
code
DS83341M

h. 10
code
DS103341M

h. 11.5
code
DS113341M

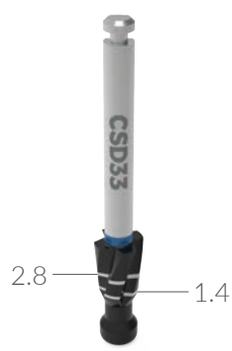
h. 13
code
DS133341M

The length of the stops ranges from **4.5 mm to 13 mm**.
The 33/38 - 38/44 - 44/48 cutters do not have stops as they are characterized by a flat tip.

COUNTERSINK

The countersinks are used when there is **the need to enlarge the initial part of the hole** created to adapt this shape to the neck of the implant to be inserted. **The maximum recommended speed is 300 rpm** with direct input on drill of saline solution to facilitate cooling. The countersink should be used in perfect axis with the osteotomy to avoid its ovalization in the coronal part. The countersinks present **two laser markings** that identify the depth to be reached on the basis of the bone consistency, at **1.4 mm for a "D3" bone, at 2.8 mm for both "D2" and "D1"bones**. Above the marking at 2.8 mm, the countersink continues with a cylindrical geometry that does not compromises the osteotomy although more deeply inserted.

ø 3.3 - 3.7 - 4.1 - 4.7 - 5.2



for short implant

without insertion head for all sizes

COUNTERSINK

Material: Surgical steel

ø 3.3
code
CSD33

ø 3.7
code
CSD37

ø 4.1
code
CSD41

ø 4.7
code
CSD47

ø 5.2
code
CSD52

ø 3.3
code
CSDS33

ø 3.7
code
CSDS37

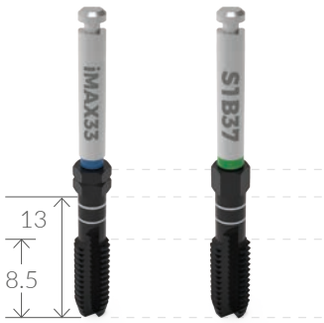
ø 4.1
code
CSDS41

ø 4.7
code
CSDS47

ø 5.2
code
CSDS52

TAPS

In very dense bone (Type I) it is recommended to use a tap with the same system profile to insert. The tap is sharper than the implant and it allows to prepare the implantation site with reduced trauma.
The maximum recommended speed is 30 rpm with direct input on tap of saline solution to facilitate cooling.



SHAPEONE TAPS

Material: Surgical steel

ø 3.7
code
TAPS1B37

ø 4.1
code
TAPS1B41

ø 4.7
code
TAPS1B47

IMAX TAPS

Material: Surgical steel

ø 3.3
code
TAPIMAX33

ø 3.7
code
TAPIMAX37

ø 4.1
code
TAPIMAX41

ø 4.7
code
TAPIMAX47

ø 5.2
code
TAPIMAX52

MUCOTOMES

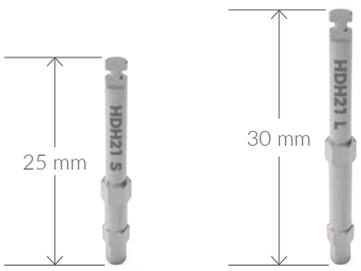
Material: Surgical steel

ø 3.3
code
HDHCSN

ø 4
code
HDHCSR

CONNECTORS

In the kit all the connectors have a handpiece attack that may be used both in manual mode and with the ratchet, thanks to the special washer (WH2). The insertion torque for the **immediate loading** will be in the range **from 35 to 50Ncm**. For the **conventional** load the **insertion torque should never exceed 50Ncm**.



Handle attack

The drive hexagon confers greater solidity during the tightening phase

Position hexagon during the insertion allows to see the internal positioning of the hexagon

Exagon connection
that reaches the stop of the system, has a steel retention ring reinforced and raised both to avoid interferences during the implant insertion and to reduce the wear of the retention

Material: Surgical steel

ø	*h.*	*code*
2,1	25	HDH21S
2,1	30	HDH21L

Internal hex narrow

ø	*h.*	*code*
2,5	25	HDH25S
2,5	30	HDH25L

For internal hex regular

ø	*h.*	*code*
2,4	25	HDH24S
2,4	30	HDH24L

External hex narrow

ø	*h.*	*code*
2,7	25	HDH27S
2,7	30	HDH27L

For external hex regular

ø	*h.*	*code*
3,1	25	HDH31S
3,1	30	HDH31L

For octagon

code
HDH20

For straight MUA

code
HDH25M

For Shape Mini

code
NHSMHDH

For iMAX MUA

ACCESSORIES

PARALLISM PIN

Material:TI-6AI-4V

code
0°
PP

ORIENTER POSITION

Material: POM-C e Ti

code
NHSMFL

For iMAX Mua

GUIDE TO DRILL INCLINATION

Material: Surgical steel

code
NHSMG

A 0° - 18° - 30°

DRIVERS AND SCREWDRIVERS

PROSTHETIC SCREWDRIVERS

Material: Surgical steel

	code
short	THDDS
long	THDDL

For hex 1.25 mm contra-angle connection

	code
extra short	MDXS
short	MDS
long	MDL
extra long	MDXL

Manual screwdriver for hexagon 1.25 mm

code
MDLAA

Torx 1.25 mm manual angled

code
THDDAL

Angled torx contra-angle screwdriver

SCREWDRIVERS

Material: Surgical steel

code
IDL

code
8393

For iRetor

REMOVAL TOOLS

Material: Surgical steel

code
TRI

For implants

code
TRT

For abutments

code
MTRT

Manual abutment extractor

EXTRACTION KIT FOR RETAINING SCREWS

code
D15RS

Drill
Material: Surgical steel

code
GRS

Guide for drill
Material: Ti-6Al-4V

code
SGRS

Holder for GRS
Material: Ti-6Al-4V

RATCHET

Material: Surgical steel

Reverse fixed ratchet: It allows to screw and unscrew without having to pull out and turn the adapter

Ratchet wrench: mounted on the reverse ratchet, it allows to measure up to 70Ncm without breaking the rod through the stop final race

Housing for 8mm washer to confer greater resistance to higher torque.

Under the 70Ncm is present a safety catch to prevent the leakage of the dragging arm, avoiding its breakage.

Reverse to change direction of unscrewing and screwing without having to remove and replace the ratchet.

Ratchet adaptor
ø 8 mm reinforced that adding solidity

code
WH2

Material: Surgical steel

code
TW4

Without adapter

code
TWA4

Complete

KIT **SINUS LIFT**

code
SINUS KIT

code	*description*
DE	drill extender
SD5	standard drill h 5 mm
SD6	standard drill h 6 mm
SD7	standard drill h 7 mm
SD8	standard drill h 8 mm
SPD	standard pilot drill
SPI	standard start drill
SBL	standard body lift
APD	advanced pilot drill
AID	advanced start drill
AD2	advanced drill h 2 mm
AD3	advanced drill h 3 mm
AD4	advanced drill h 4 mm
ABL	advanced body lift
RBL	ratchet body lift

SURGICAL PROTOCOL

DRIVERS- FINAL DRILLS- COUNTERSINKS - TAPS

heights from 8 to 16 mm

Implant system	Drivers	Ø	Finla drills (Bone d4)	Final drills (Bon d3-d2-d1)	CSD (Bone d3 - d2)	TAP (Bone d1)
iMAX **NHSI 3.3**	HDH21S HDH21L	3.3	D2024M	D2428M	CSD33	TAPIMAX33
SHAPEONE **B**	HDH25S HDH25L	3.7	D2428M	D2833M	CSD37	TAPS1B37
		4.1	D2833M	D3338M-P	CSD41	TAPS1B41
		4.7	D3338M-P	D3844M-P	CSD47	TAPS1B47
SHAPEONE **Tn**	HDH25S HDH25L	3.7	D2428M	D2833M	CSD37	TAPS1B37
		4.1	D2833M	D3338M-P	CSD41	TAPS1B41
		4.7	D3338M-P	D3844M-P	CSD47	TAPS1B47
iMAX **NHSI**	HDH25S HDH25L	3.7	D2428M	D2833M	CSD37	TAPiMAX37
		4.1	D2833M	D3338M-P	CSD41	TAPiMAX41
		4.7	D3338M-P	D3844M-P	CSD47	TAPiMAX47
		5.2	D3844M-P	D4448M-P	CSD52	TAPiMAX52
iMAX **NHSIC Narrow**	HDH21S HDH21L	3.3	D2024M	D2428M	CSD33	TAPIMAX33
		3.7	D2428M	D2833M	CSD37	TAPiMAX37
iMAX **NHSIC Regular**	HDH25S HDH25L	4.1	D2833M	D3338M-P	CSD41	TAPiMAX41
		4.7	D3338M-P	D3844M-P	CSD47	TAPiMAX47
		5.2	D3844M-P	D4448M-P	CSD52	TAPiMAX52
Volution **SVB**	HDH21S HDH21L	3.3	D2024M	D2428M	CSD33	
	HDH25S HDH25L	3.7	D2428M	D2833M	CSD37	
		4.1	D2833M	D3338M-P	CSD41	
		4.7	D3338M-P	D3844M-P	CSD47	
		5.2	D3844M-P	D4448M-P	CSD52	
iMAX NHSE 3.3	HDH24S HDH24L	3.3	D2024M	D2428M	CSD33	TAPIMAX33
iMAX **NHSE**	HDH27S HDH27L	3.7	D2428M	D2833M	CSD37	TAPiMAX37
		4.1	D2833M	D3338M-P	CSD41	TAPiMAX41
		4.7	D3338M-P	D3844M-P	CSD47	TAPiMAX47
		5.2	D3844M-P	D4448M-P	CSD52	TAPiMAX52
SHAPEONE **T** (abutment included in the pack)	HDH25S HDH25L	3.7	D2428M	D2833M	CSD37	TAPS1B37
		4.1	D2833M	D3338M-P	CSD41	TAPS1B41
		4.7	D3338M-P	D3844M-P	CSD47	TAPS1B47
SHAPEONE **T** (after removing the abutment tighten the implant)	HDH31S HDH31L	3.7	D2428M	D2833M	CSD37	TAPS1B37
		4.1	D2833M	D3338M-P	CSD41	TAPS1B41
		4.7	D3338M-P	D3844M-P	CSD47	TAPS1B47
iMAXMUA 0°	NHSMHDH NHSMFL (driver)	3.3	D2024M	D2428M	CSD33	TAPIMAX33
iMAXMUA 18°		3.7	D2428M	D2833M	CSD37	TAPiMAX37
iMAXMUA 30°		4.1	D2833M	D3338M-P	CSD41	TAPiMAX41
SHAPEMINI	HDH25M	2.7	D20M	D2024M		

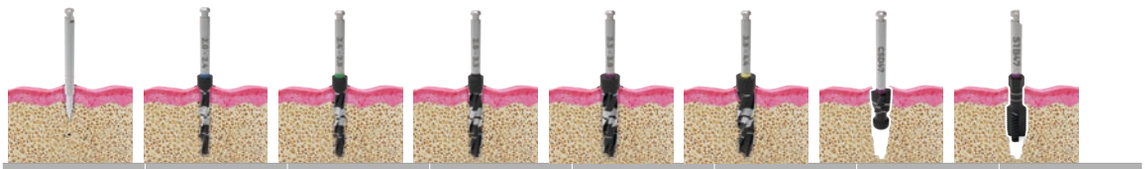
ø 3.7 Sink countersink: up to 1.4 mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone
Use 3.7 countersink and 3.7 tap

	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Countersink	Tap
Soft d4	●	●	●					
Medium d3/d2	●	●	●	●			●	
Compact d1	●	●	●	●			●	●

ø 4.1 Sink countersink: up to 1.4 mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone
Use 4.1 countersink and 4.1 tap

	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Countersink	Tap
Soft d4	●	●	●	●				
Medium d3/d2	●	●	●	●	●		●	
Compact d1	●	●	●	●	●		●	●

ø 4.7 Sink countersink: up to 1.4 mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone
Use 4.7 countersink and 4.7 tap



	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Countersink	Tap
Soft d4	●	●	●	●	●			
Medium d3/d2	●	●	●	●	●	●	●	
Compact d1	●	●	●	●	●	●	●	●

ø 3.3 Sink countersink: up to 1.4 mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone
Use 3.3 countersink and 3.3 tap

	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8	Step 9
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink	Maschiatore
Soft d4	•	•							
Medium d3/d2	•	•	•					•	
Compact d1	•	•	•					•	•

ø 3.7 Sink countersink: up to 1.4 mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone
Use 3.7 countersink and 3.7 tap

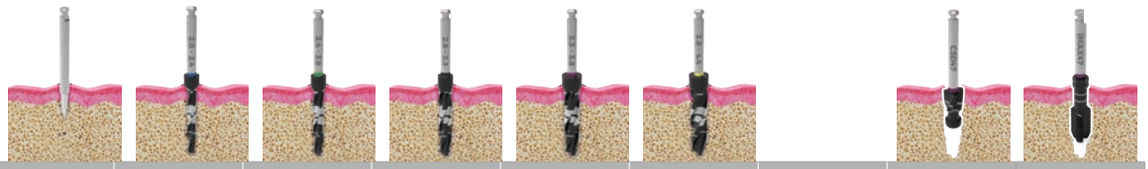
	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8	Step 9
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink	Maschiatore
Soft d4	•	•	•						
Medium d3/d2	•	•	•	•				•	
Compact d1	•	•	•	•				•	•

ø 4.1 Sink countersink: up to 1.4 mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone
Use 4.1 countersink and 4.1 tap

	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8	Step 9
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink	Maschiatore
Soft d4	•	•	•	•					
Medium d3/d2	•	•	•	•	•			•	
Compact d1	•	•	•	•	•			•	•

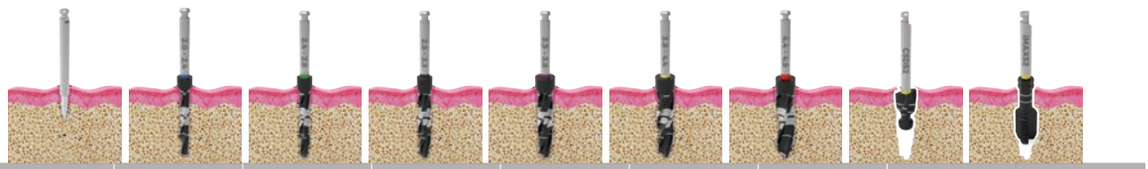
iMAX iMAX MASIC

ø 4.7 Sink countersink: up to 1.4 mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact boneUtilizzare Use 4.7 countersink and 4.7 tap



	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8	Step 9
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink	Tap
Soft d4	•	•	•	•	•				
Medium d3/d2	•	•	•	•	•	•		•	
Compact d1	•	•	•	•	•	•		•	•

ø 5.2 Sink countersink: up to 1.4 mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone Use 5.2 countersink and 5.2 tap



	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8	Step 9
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink	Tap
Soft d4	•	•	•	•	•	•			
Medium d3/d2	•	•	•	•	•	•	•	•	
Compact d1	•	•	•	•	•	•	•	•	•

VOLUTION

ø 3.3 Sink countersink: up to 1.4 mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone Use 3.3 countersink

	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink
Soft d4	•	•						
Medium d3/d2	•	•	•					•
Compact d1	•	•	•					•

ø 3.7 Sink countersink: up to 1.4 mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone
Use 3.7 countersink

	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink
Soft d4	●	●	●					
Medium d3/d2	●	●	●	●				●
Compact d1	●	●	●	●				●

ø 4.1 Sink countersink: up to 1.4 mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone
Use 4.1 countersink

	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink
Soft d4	●	●	●	●				
Medium d3/d2	●	●	●	●	●			●
Compact d1	●	●	●	●	●			●

ø 4.7 Sink countersink: up to 1.4 mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone
Use 4.7 countersink

	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink
Soft d4	●	●	●	●	●			
Medium d3/d2	●	●	●	●	●	●		●
Compact d1	●	●	●	●	●	●		●

ø 5.2 Sink countersink: up to 1.4 mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone
Use 5.2 countersink

	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink
Soft d4	●	●	●	●	●	●		
Medium d3/d2	●	●	●	●	●	●	●	●
Compact d1	●	●	●	●	●	●	●	●

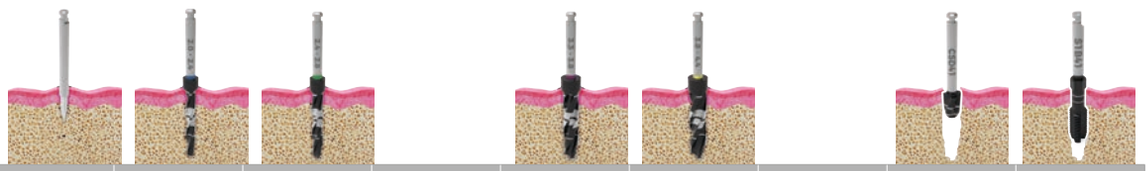
DRIVERS - FINAL DRILLS - COUNTERSINKS - TAPS

short implants

Implant system	Drivers	Ø	Final drills (Bone d4)	Final drills (Bone d3-d2-d1)	CSDS (Bone d3-d2)	TAP (d1 bone)
SHAPEONE **B**	HDH25S HDH25L	4.1	D3338M-P	D3844M-P	CSDS41	TAPS1B41
		4.7	D3844M-P	D4448M-P	CSDS47	TAPS1B47
SHAPEONE **Tn**	HDH25S HDH25L	4.1	D3338M-P	D3844M-P	CSDS41	TAPS1B41
		4.7	D3844M-P	D4448M-P	CSDS47	TAPS1B47
iMAX **NHSI**	HDH25S HDH25L	3.7	D2833M	D3338M-P	CSDS37	TAPiMAX37
		4.1	D3338M-P	D3844M-P	CSDS41	TAPiMAX41
		4.7	D3844M-P	D4448M-P	CSDS47	TAPiMAX47
		5.2	D4448M-P	D4448M-P	CSDS52	TAPiMAX52
iMAX **NHSIC Regular**	HDH25S HDH25L	4.1	D3338M-P	D3844M-P	CSDS41	TAPiMAX41
		4.7	D3844M-P	D4448M-P	CSDS47	TAPiMAX47
		5.2	D4448M-P	D4448M-P	CSDS52	TAPiMAX52
Volution **SVB**	HDH21S HDH21L	3.3	D2428M	D2833M	CSDS33	
	HDH25S HDH25L	3.7	D2833M	D3338M-P	CSDS37	
		4.1	D3338M-P	D3844M-P	CSDS41	
		4.7	D3844M-P	D4448M-P	CSDS47	
		5.2	D4448M-P	D4448M-P	CSDS52	
iMAX **NHSE**	HDH27S HDH27L	3.7	D2833M	D3338M-P	CSDS37	TAPiMAX37
		4.1	D3338M-P	D3844M-P	CSDS41	TAPiMAX41
		4.7	D3844M-P	D4448M-P	CSDS47	TAPiMAX47
		5.2	D4448M-P	D4448M-P	CSDS52	TAPiMAX52
SHAPEONE **T** (abutment included in the pack)	HDH25S HDH25L	4.1	D3338M-P	D3844M-P	CSDS41	TAPS1B41
		4.7	D3844M-P	D4448M-P	CSDS47	TAPS1B47
SHAPEONE **T** (after removing the abutment tighten the implant)	HDH31S HDH31L	4.1	D3338M-P	D3844M-P	CSDS41	TAPS1B41
		4.7	D3844M-P	D4448M-P	CSDS47	TAPS1B47

SHAPEONE

ø 4.1 Sink countersink: up to 1.4mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone
Use 4.1 countersink and 4.1 tap



	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8	Step 9
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink	Tap
Soft d4	•	•	•		•				
Medium d3/d2	•	•	•		•	•		•	
Compact d1	•	•	•		•	•		•	•

SHAPEONE

ø 4.7 Sink countersink: up to 1.4 mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone
Use 4.7 countersink and 4.7 tap

	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8	Step 9
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink	Tap
Soft d4	•	•	•	•		•			
Medium d3/d2	•	•	•	•		•	•	•	
Compact d1	•	•	•	•		•	•	•	•

iMAX

ø 3.7 Sink countersink: up to 1.4 mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone
Use 3.7 countersink and 3.7 tap

	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8	Step 9
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink	Tap
Soft d4	•	•		•					
Medium d3/d2	•	•		•	•			•	
Compact d1	•	•		•	•			•	•

iMAX iMAX MISIC

ø 4.1 Sink countersink: up to 1.4 mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone
Use 4.1 countersink and 4.1 tap

	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8	Step 9
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink	Tap
Soft d4	•	•	•		•				
Medium d3/d2	•	•	•		•	•		•	
Compact d1	•	•	•		•	•		•	•

iMAX iMAX MASIC

ø 4.7 Sink countersink: up to 1.4mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone
Use 4.7 countersink and 4.7 tap

	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8	Step 9
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink	Tap
Soft d4	•	•	•	•		•			
Medium d3/d2	•	•	•	•		•	•	•	
Compact d1	•	•	•	•		•	•	•	•

ø 5.2 Sink countersink: up to 1.4mm for d3 medium bone/ up to 2.8mm for d2 medium bone and d1 compact bone
Use 5.2 countersink and 5.2 tap

	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8	Step 9
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink	Tap
Soft d4	•	•	•	•	•		•		
Medium d3/d2	•	•	•	•	•		•	•	
Compact d1	•	•	•	•	•		•	•	•

VOLUTION

ø 3.3 Sink countersink: up to 1.4mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone
Use 3.3 countersink

	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink
Soft d4	•		•					
Medium d3/d2	•		•	•				•
Compact d1	•		•	•				•

ø 3.7 Sink countersink: up to 1.4 mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone
Use 3.7 countersink

	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink
Soft d4	●	●		●				
Medium d3/d2	●	●		●	●			●
Compact d1	●	●		●	●			●

ø 4.1 Sink countersink: up to 1.4 mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone
Use 4.1 countersink

	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink
Soft d4	●	●	●		●			
Medium d3/d2	●	●	●		●	●		●
Compact d1	●	●	●		●	●		●

ø 4.7 Sink countersink: up to 1.4 mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone
Use 4.7 countersink

	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink
Soft d4	●	●	●	●		●		
Medium d3/d2	●	●	●	●		●	●	●
Compact d1	●	●	●	●		●	●	●

ø 5.2 Sink countersink: up to 1.4 mm for d3 medium bone/ up to 2.8 mm for d2 medium bone and d1 compact bone
Use 5.2 countersink

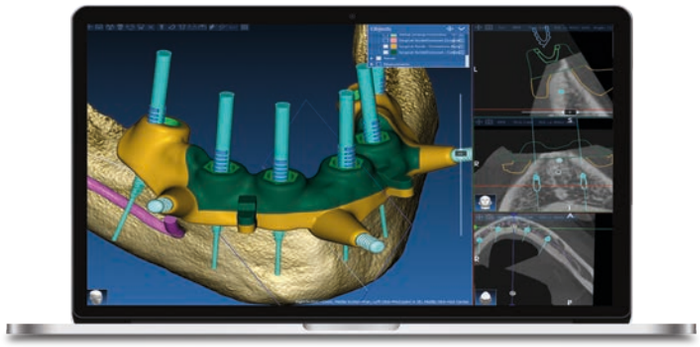
	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8
Bone	Lance drill	Drill 2.0|2.4	Drill 2.4|2.8	Drill 2.8|3.3	Drill 3.3|3.8	Drill 3.8|4.4	Drill 4.4|4.8	Countersink
Soft d4	●	●	●	●		●		
Medium d3/d2	●	●	●	●		●	●	●
Compact d1	●	●	●	●		●	●	●

GUIDED SURGERY

GUIDED SURGERY KIT

code	*descrizione*
BP	bone profile chirurgia guidata
GD202406	drill ø 2.0/2.4 x 6 mm
GD202408	drill ø 2.0/2.4 x 8 mm
GD202410	drill ø 2.0/2.4 x 10 mm
GD202411	drill ø 2.0/2.4 x 11 mm
GD202413	drill ø 2.0/2.4 x 13 mm
GD202416	drill ø 2.0/2.4 x 16 mm
GD242806	drill ø 2.4/2.8 x 6 mm
GD242808	drill ø 2.4/2.8 x 8 mm
GD242810	drill ø 2.4/2.8 x 10 mm
GD242811	drill ø 2.4/2.8 x 11,5 mm
GD242813	drill ø 2.4/2.8 x 13 mm
GD242816	drill ø 2.4/2.8 x 16 mm
GD283306	drill ø 2.8/3.3 x 6 mm
GD283308	drill ø 2.8/3.3 x 8 mm
GD283310	drill ø 2.8/3.3 x 10 mm
GD283311	drill ø 2.8/3.3 x 11.5 mm
GD283313	drill ø 2.8/3.3 x 13 mm
GD283316	drill ø 2.8/3.3 x 16 mm
GD333806	drill ø 3.3/3.8 x 6 mm
GD333808	drill ø 3.3/3.8 x 8 mm
GD333810	drill ø 3.3/3.8 x 10 mm
GD333811	drill ø 3.3/3.8 x 11.5 mm
GD333813	drill ø 3.3/3.8 x 13 mm
GD333816	drill ø 3.3/3.8 x 16 mm
GD384406	drill ø 3.8/4.4 x 6 mm
GD384408	drill ø 3.8/4.4 x 8 mm
GD384410	drill ø 3.8/4.4 x 10 mm
GD384411	drill ø 3.8/4.4 x 11.5 mm
GD384413	drill ø 3.8/4.4 x 13 mm
GD384416	drill ø 3.8/4.4 x 16 mm
GDCSD33	countersink ø 3.3
GDCSD37	countersink ø 3.7
GDCSD41	countersink ø 4.1
GDCSD47	countersink ø 4.7
GDTAPS1B37	S1B taps ø 3.7
GDTAPS1B41	S1B taps ø 4.1
GDTAPS1B47	S1B taps ø 4.7
GDTAPIMAX33	iMAX taps ø 3.3
GDTAPIMAX37	iMAX taps ø 3.7
GDTAPIMAX41	iMAX taps ø 4.1
GDTAPIMAX47	iMAX taps ø 4.7
PING15 (3 psc)	pin per guidata ø 1.5
HDH25S	short internal hexagon connector 2.5
MDL	hexagonal screwdriver 1.25 h. 29
FR15L	drill D15
CS	guided surgery mucotome
TRT	abutment extractor
GD444806	drill ø 4.4/4.8 x 6 mm
GD444808	drill ø 4.4/4.8 x 8 mm
TWA4	ratchet wrench

Add the mounters (p. 75) according to the implant connection



IMPLANT LIBRARIES FOR GUIDED SURGERY

iRES offers to **its customers a free kit of implant libraries for the planning of guided surgery procedures**.
All iRES implants are included in IESS Guide, the diagnostic and guided surgery software proposed by **IESS Group** based on **Real Guide**, which accurately reprocesses the patient's anatomical data and facilitates the definition of the ideal treatment plan.

Comprehensive and versatile, thanks to the extensive implant library, the implant placement can be planned taking into account not only the anatomical characteristics of the site but also the prosthetic aspects, in order to achieve functional and aesthetic rehabilitation.

iRES implant libraries are available on the website **https://it.ires.dental/media-kit/** for the following software:
IESS Guide (RealGuide)
Exocad
BlueSky Bio
3Shape Implant Studio

Upon request, libraries can also be created for other software.

PIN Ø 1,5

Material: Ti-6Al-4V

code
PING15

DRILLS Ø 1.5

Material: Surgical steel

code
FR15L

DRILLS Ø 2.0/2.4

Material: Surgical steel

h.	*code*
6	GD202406
8	GD202408
10	GD202410
11	GD202411
13	GD202413
16	GD202416

DRILLS Ø 2.4/2.8

Material: Surgical steel

h.	*code*
6	GD242806
8	GD242808
10	GD242810
11	GD242811
13	GD242813
16	GD242816

DRILLS Ø 2.8/3.3

Material: Surgical steel

h.	*code*
6	GD283306
8	GD283308
10	GD283310
11	GD283311
13	GD283313
16	GD283316

DRILLS Ø 3.3/3.8

Material: Surgical steel

h.	*code*
6	GD333806
8	GD333808
10	GD333810
11	GD333811
13	GD333813
16	GD333816

DRILLS Ø 3.8/4.4

Material: Surgical steel

h.	*code*
6	GD384406
8	GD384408
10	GD384410
11	GD384411
13	GD384413
16	GD384416

DRILLS Ø 4.4/4.8

Material: Surgical steel

h.	*code*
6	GD444806
8	GD444808

COUNTERSINKS

Material: Surgical steel

ø	*code*
3.3	GDCSD33

ø	*code*
3.7	GDCSD37

ø	*code*
4.1	GDCSD41

ø	*code*
4.7	GDCSD47

IMAX TAPS

Material: Surgical steel

ø	*code*
3.3	GDTAPIMAX33

ø	*code*
3.7	GDTAPIMAX37

ø	*code*
4.1	GDTAPIMAX41

ø	*code*
4.7	GDTAPIMAX47

SURGICAL TAP S1B

Material: Surgical steel

ø	code
3.7	GDTAPS1B37

ø	code
4.1	GDTAPS1B41

ø	code
4.7	GDTAPS1B47

BONE PROFILE

Material: Surgical steel

code
BP

MUCOTOME

Material: Surgical steel

code
CS

MOUNTER

Material: Ti-6Al-4V • Screw included: S1BRS1

	code
BL	S1B1GSM

Internal hex 2.5

	code
NBL	S1BN1GSM

Internal hex 2.1

	code
NHSIC NARROW	NHSICN1GSM

Conometric connection 2.1

Material: Ti-6Al-4V

	code
EH	S1EH1GSM

External hex 2.7
Screw included: S1EHRS1

	code
EH 3.3	S1EHN1GSM

External hex 2.4
Screw included: S1EHNRS1

	code
STRAIGHT IMAX MUA	NHSMGSM

Screw included: NHSMRS1

SLEEVE

code
BPG15

For pin
Material: Ti-6Al-4V

code
BG001

ø 6.2
Material: PEEK

code
BG002

Material: Ti-6Al-4V

DRILL
SEQUENCE

IMPLANT Ø 3.3

	heights implant (mm)					
	6	8	10	11.5	13	16
mucotome CS	●	●	●	●	●	●
bone profile BP	●	●	●	●	●	●
drill ø 2.0/2.4 L.6	●	●	●	●	●	●
drill ø 2.0/2.4 L.8		●	●	●	●	●
drill ø 2.0/2.4 L.10			●	●	●	●
drill ø 2.0/2.4 L.11.5				●	●	●
drill ø 2.0/2.4 L.13					●	●
drill ø 2.0/2.4 L.16						●
drill ø 2.4/2.8 L.6	●					
drill ø 2.4/2.8 L.8		●	●	●	●	●
drill ø 2.4/2.8 L.10			●			
drill ø 2.4/2.8 L.11.5				●		
drill ø 2.4/2.8 L.13					●	●
drill ø 2.4/2.8 L.16						●
countersink ø 3.3	●	●	●	●	●	●
taps ø 3.3	●	●	●	●	●	●

D1 D2-D3 D4

IMPLANT Ø 3.7

	heights implant (mm)					
	6	8	10	11.5	13	16
mucotome CS	●	●	●	●	●	●
bone profile BP	●	●	●	●	●	●
drill ø 2.0/2.4 L.6	●	●	●	●	●	●
drill ø 2.0/2.4 L.8		●	●	●	●	●
drill ø 2.0/2.4 L.10			●	●	●	●
drill ø 2.0/2.4 L.11.5				●	●	●
drill ø 2.0/2.4 L.13					●	●
drill ø 2.0/2.4 L.16						●
drill ø 2.4/2.8 L.6	●					
drill ø 2.4/2.8 L.8		●	●	●	●	●
drill ø 2.4/2.8 L.10			●			
drill ø 2.4/2.8 L.11.5				●		
drill ø 2.4/2.8 L.13					●	●
drill ø 2.4/2.8 L.16						●
drill ø 2.8/3.3 L.6	●					
drill ø 2.8/3.3 L.8		●	●	●	●	●
drill ø 2.8/3.3 L.10			●			
drill ø 2.8/3.3 L.11.5				●		
drill ø 2.8/3.3 L.13					●	●
drill ø 2.8/3.3 L.16						●
countersink ø 3.7	●	●	●	●	●	●
taps ø 3.7	●	●	●	●	●	●

D1 D2-D3 D4

IMPLANT Ø 4.1

	heights implant (mm)					
	6	8	10	11.5	13	16
mucotome CS	●	●	●	●	●	●
bone profile BP	●	●	●	●	●	●
drill ø 2.0/2.4 L.6	●	●	●	●	●	●
drill ø 2.0/2.4 L.8		●	●	●	●	●
drill ø 2.0/2.4 L.10			●	●	●	●
drill ø 2.0/2.4 L.11.5				●	●	●
drill ø 2.0/2.4 L.13					●	●
drill ø 2.0/2.4 L.16						●
drill ø 2.4/2.8 L.6	●					
drill ø 2.4/2.8 L.8		●	●	●	●	●
drill ø 2.4/2.8 L.10			●			
drill ø 2.4/2.8 L.11.5				●		
drill ø 2.4/2.8 L.13					●	●
drill ø 2.4/2.8 L.16						●
drill ø 2.8/3.3 L.6	●					
drill ø 2.8/3.3 L.8		●	●	●	●	●
drill ø 2.8/3.3 L.10			●			
drill ø 2.8/3.3 L.11.5				●		
drill ø 2.8/3.3 L.13					●	●
drill ø 2.8/3.3 L.16						●
drill ø 3.3/3.8 L.6	●					
drill ø 3.3/3.8 L.8		●	●	●	●	●
drill ø 3.3/3.8 L.10			●			
drill ø 3.3/3.8 L.11.5				●		
drill ø 3.3/3.8 L.13					●	●
drill ø 3.3/3.8 L.16						●
countersink ø 4.1	●	●	●	●	●	●
taps ø 4.1	●	●	●	●	●	●

D1 D2-D3 D4

IMPLANT Ø 4.7

	heights implant (mm)					
	6	8	10	11.5	13	16
mucotome CS	●	●	●	●	●	●
bone profile BP	●	●	●	●	●	●
drill ø 2.0/2.4 L.6	●	●	●	●	●	●
drill ø 2.0/2.4 L.8		●	●	●	●	●
drill ø 2.0/2.4 L.10			●	●	●	●
drill ø 2.0/2.4 L.11.5				●	●	●
drill ø 2.0/2.4 L.13					●	●
drill ø 2.0/2.4 L.16						●
drill ø 2.4/2.8 L.6	●					
drill ø 2.4/2.8 L.8		●	●	●	●	●
drill ø 2.4/2.8 L.10			●			
drill ø 2.4/2.8 L.11.5				●		
drill ø 2.4/2.8 L.13					●	●
drill ø 2.4/2.8 L.16						●
drill ø 2.8/3.3 L.6	●					
drill ø 2.8/3.3 L.8		●	●	●	●	●
drill ø 2.8/3.3 L.10			●			
drill ø 2.8/3.3 L.11.5				●		
drill ø 2.8/3.3 L.13					●	●
drill ø 2.8/3.3 L.16						●
drill ø 3.3/3.8 L.6	●					
drill ø 3.3/3.8 L.8		●	●	●	●	●
drill ø 3.3/3.8 L.10			●			
drill ø 3.3/3.8 L.11.5				●		
drill ø 3.3/3.8 L.13					●	●
drill ø 3.3/3.8 L.16						●
drill ø 3.8/4.4 L.6	●					
drill ø 3.8/4.4 L.8		●	●	●	●	●
drill ø 3.8/4.4 L.10			●			
drill ø 3.8/4.4 L.11.5				●		
drill ø 3.8/4.4 L.13					●	●
drill ø 3.8/4.4 L.16						●
countersink ø 4.7	●	●	●	●	●	●
taps ø 4.7	●	●	●	●	●	●

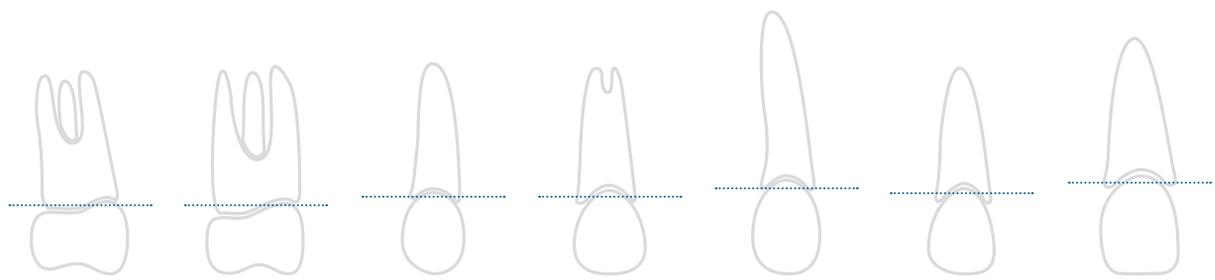
D1 D2-D3 D4

MINIMUM IMPLANTS SIZE ALLOWED
FOR POSITION

iRES declines all responsibility in case of failure if the information leaflet are not be respected as regard the implants position in relation to implants site and diameters

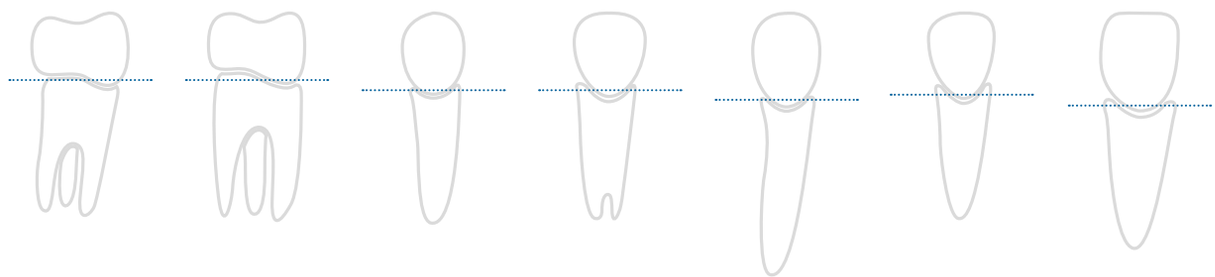
UPPER

≥ ø 4.7	≥ ø 4.7	≥ ø 4.1	≥ ø 4.1	≥ ø 4.1	≥ ø 3.7	≥ ø 4.1



17/27	16/26	15/25	14/24	13/23	12/22	11/21

37/47	36/46	35/45	34/44	33/43	32/42	31/41



≥ ø 4.7	≥ ø 4.7	≥ ø 4.1	≥ ø 4.1	≥ ø 3.7	≥ ø 3.3	≥ ø 3.3

LOWER

INSTRUCTIONS FOR USE I-RES SHAPE1, IMAX, VOLUTION, IMAXMUA, HANDY AND SHAPEMINI IMPLANT SYSTEM

PRODUCT CHARACTERISTICS

The **SHAPE1, iMAX, VOLUTION, iMAXMUA, HANDY and SHAPEMINI** implant systems, by **I-RES SAGL** offers the dentist a wide choice of titanium implant configurations that differ in diameter, height and possibility of surgical positioning A) submerged/bone level, B) transmucose/tissue level, and various prosthetic components for the different rehabilitation procedures.

Indications for use

The **SHAPE1, iMAX, VOLUTION, iMAXMUA, HANDY and SHAPEMINI** implant systems are indicated for surgical treatment in the upper or lower jaw for the partial or total replacement of teeth in patients who have lost part or all of their teeth. The implant to be used must be chosen by the medical personnel based on the medical history and on the subsequent surgical and prosthetic plan required for each individual patient. The onepiece implants **iMAXMUA**, having the same geometric shape of **iMAX** dental implants, ensure an excellent retention of the prosthesis, thanks to the ability to accommodate the retained screw designed for MUA components with a pitch of 1/72 instead of 1,4 mm as in the classic MUA. The implants are delivered in sterile packs and the operator must pay great attention when positioning it in the oral cavity, so that the implant does not come in contact with elements that could alter the surface, hindering the healing processes, so all manoeuvres must be performed in an environment suitable for surgical activities. The **SHAPE1, iMAX, VOLUTION, iMAXMUA, HANDY and SHAPEMINI** implant system has a series of dedicated surgical instruments for its implant lines, useful for the non-traumatic preparation of the site that is to receive the implant, and instruments designed for extracting the implant from the blister and transporting it to the mouth for insertion. Each blister containing the implant is provided with a closing screw, useful for sealing the internal part of the implant after it has been inserted in the mandibular or maxillary bone. **SHAPEMINI** implants fix the dentures but can also be used for the replacement of a single tooth.

Contraindications

Do not use **SHAPE1, iMAX, VOLUTION, iMAXMUA, HANDY and SHAPEMINI** implant systems in patients who have a scarce amount of bone suitable to guarantee the primary stability of the implant in the first phase of insertion, in patients with poor oral hygiene, smokers, with uncontrolled systemic pathologies and blood disorders. In addition to the normal contraindications for general surgery, the conditions described above can have a negative influence on the partial or total integration of the implant.

Warnings

To use the **SHAPE1, iMAX, VOLUTION, iMAXMUA, HANDY and SHAPEMINI** implant systems by **I-RES SAGL**, the dentist must know the general surgical and prosthetic techniques and the specific techniques for **SHAPE1, iMAX, VOLUTION, iMAXMUA, HANDY and SHAPEMINI**, following the indications of the surgical protocol and specific training courses. An incorrect choice of implant and surgical technique can be prejudicial to the success of the operation, causing the loss of the implant and of the surrounding bone. No implant must be used that has been used previously, or that has come in contact with the organic elements of third parties. The sterility of the implant is guaranteed by the sealed packaging and by correct storage in controlled dry environments; packages that are not intact or damaged are prejudicial to the use of the implant. For product traceability it is important to keep the batch number marked on the implant package and on the adhesive labels to be found in the same package. For the same reason it is recommended that the dentist keep as long as possible his patients' medical files, in which he has a record of their medical history, treatment plans, types of operations and prosthetic rehabilitations performed and everything that can be useful for the patient's medical history. The use of non-original I-RES instruments is not advised, as is the failure to follow the indications for inserting the **SHAPE1, iMAX, VOLUTION, iMAXMUA, HANDY and SHAPEMINI** implant systems and the respective prosthetic components, because they have been designed to obtain the best result. **SHAPE1, iMAX, VOLUTION, iMAXMUA, HANDY and SHAPEMINI** implant systems must be inserted with a maximum torque of 50 Ncm, exceeding this force could be prejudicial to the precision of connection with the subsequent prosthetic part. **The SHAPE1, iMAX, VOLUTION, iMAXMUA, HANDY and SHAPEMINI** implant systems include, in their range of implants, very small diameters made not only in pure titanium but also in titanium alloy (such as Ø 3.3 mm, Ø 3.7 mm in the connections internal hexagon and for Ø 2.7 mm for SHAPEMINI mini-implants), which must be used as implants only in the front of the mouth and not in diatoric areas where there is great masticatory stress. Especially the mini implants, with a Ø 2.7 mm, may be used only for the anchorage of the prosthesis. Furthermore, the implants with Ø 3.7 mm must not be inserted individually on premolars and molars, but at most should be only linked with bars to distribute the loading force. **SHAPEMINI** mini-implants may be used only in the front part of the mouth for single tooth replacement and not in the rear part of the mouth where masticatory stress are higher, in this sites, they can only be used for dentures anchoring.

THE COMPANY I-RES SAGL DISCLAIMS HERSELF FOR ANY LIABILITY DUE TO THE NON OBSERVANCE OF THE INDICATIONS REPORTED IN THIS INSTRUCTION LEAFLET.

Collateral effects

The known possible collateral effects are the partial or total failure of osseointegration, with consequent loss of the prosthetic function for which the implant system is intended, pain and transient paresthesia, fracture due to excessive load on the implant system, post or prosthesis.

Pre-operative planning

The careful study and assessment of patients who are candidates for implant-prosthetic therapy is of fundamental importance. Physical, instrumental, and radiological examinations and the study of models allow the dentist to make the best diagnosis and consequent therapy. The preparation of the patient for surgical implant therapy and the preparation of the operating room must be given the same care and attention as general surgery; the preparation of the implant site using dedicated drills with controlled revolutions, cooled with saline solution, these are all indispensable conditions for implant therapy.

Surgical complications

Implant surgery operations may lead to some complications that are usually temporary and restricted to the area of operation, such as inflammation, paresthesia, haematoma; there may also be injuries to nerves, to vascular complexes and the membrane of the maxillary sinus. Bone sequestration has rarely occurred.

Materials and packaging

Implant surgery operations may lead to some complications that are usually temporary and restricted to the area of operation, such as inflammation, paresthesia, haematoma; there may also be injuries to nerves, to vascular complexes and the membrane of the maxillary sinus. Bone sequestration has rarely occurred.

Symbols on the package

The **SHAPE1, iMAX, VOLUTION, iMAXMUA, HANDY and SHAPEMINI** implant systems are produced in commercially pure grade 4 titanium - ASTM F67 - and in grade 5 titanium alloy (Ø 3.3 and Ø 3.7 in internal hexagon connections) – ASTM F136. **SHAPE1, iMAX, VOLUTION, iMAXMUA, HANDY and SHAPEMINI** implants are surface treated to improve osseointegration by means of sandblasting followed by double acid-etching. In the market are also available implants with different surface treatments depending on the intended use of the product, as well as implants with a final coating with hyaluronic acid for a better bone tissue healing. The only machined implants are suitable for the patient with periodontitis. The Hybrid implants (presenting a surface half machined and half superficially treated) are specified both for patients with periodontitis and for all those patients where greater care is necessary aimed at reducing or better treating peri-implantitis. Decontamination is performed with cold Argon plasma followed by packaging in a cleanroom, for the final sterilisation phase with gamma or beta rays. The pack containing the implant and the respective cover screw must be opened in a sterile environment in the phases of surgical implant therapy. **I-RES' SAGL** implants are DISPOSABLE devices. Their reuse is not desirable from a medical, legal and ethical point of view. The use of not validated sterilization procedures can cause both the infection onset in the patient and impair the product performances. The failure compliance with these instructions implies a different use as provided by the manufacturer and those who make the reuse must take this action on their own responsibility.

SYMBOLS ON THE PACKAGE

	MANUFACTURER I-RES® SAGL Piazzale Roncaa 4 6850 Mendrisio [Switzerland] info@ires.dental www.ires.dental
EC REP	(EN) EUROPEAN AUTHORIZED REPRESENTATIVE IESS GROUP SRL Via Madonna della Salute 23 33050 Pozzuolo del Friuli (UD) [Italy]
CE 0426	CE Mark according to standard MDD93/42/EEC
LOT	Batch number
	Use by
STERILE R	Sterilized by gamma or beta rays
	Do not reuse
	Do not restirilize
	Follow the instructions given in the illustrative leaflet
	Do not expose to direct sunlight
	Do not expose to rain and keep in an environment free from damp
	Do not use if the packaging is damaged

The I-RES implant-prosthetic system is intended for use in the oral cavity and is provided with useful components to enable the dentist and the dental technician to prosthetically complete the operation begun by the dentist by inserting the implant in the patient. The I-RES implant-prosthetic system completes the line of I-RES dental implants and the respective I-RES instruments.

Product characteristics

Healing screws. The healing screw is a device used by the dentist to keep the oral mucosa pervious in the vicinity of the implant previously inserted. Once the soft tissues have healed, this will allow the dentist to perform the subsequent manoeuvres for prosthetization. The healing screws are made of grade 5 titanium.

Transfer. The transfer in grade 5 titanium is the instru- ment that allows the transfer from the mouth to a model of the information needed for the prosthetic connec- tion and for making the respective prosthesis. There are two types of transfer: "closed tray and open tray", and they are all composed of two parts (a screw and a repositioner). After being inserted in the implant and secured to it with the screw, the transfer is ready to take the impression in the mouth.

Analog. The analog made of grade 5 titanium has the function of reproducing the internal characteristics of the implant and it must be securely fixed to the transfer. Once joined, the model can be cast.

Straight, angled and millable posts. They are made of grade 5 titanium; they have different shapes depending on the characteristics they have to satisfy, they are used mostly for prosthetic rehabilitations of bridges or crowns. The choice of the device that must be connected to the analog in the first phase is dictated by the clinical and processing decisions, which are at the discretion of the dentist and the dental technician.

Plastic posts. Plastic posts may be divided into two families, one for using directly in the oral cavity, ap- propriately modified and connected to the post to support temporary prostheses, one for the transfor- mation of plastic posts into metal posts by the dental technician, with processing characteristics that are at the discretion of the dentist and the dental technician.

Gold Bases. These are components made of gold al- loy and allow the creation of customized posts using overcasting techniques.

Ball attachments. Ball attachments are made of grade 5 titanium and, once fixed to the implants, they are able to act as an anchorage by means of special attach- ments to the patient's mobile prosthesis.

Contraindications:

Do not use I-RES products on patients who have al- lergies to the materials of which the component is made. The use of I-RES components in patients who have metabolic and periodontal diseases or poor oral hygiene may be prejudicial to the success of the

work, as may prosthetic constructions not in line with international standards. The lack of periodic controls, which the patient must undergo with his dentist after prosthetisation, may compromise the life of the implant-prosthetic system.

Warnings:

I-RES prosthetic components are reserved for use by personnel with knowledge of the subject. I-RES points out that alterations to the implant/post connections may be prejudicial to the success of the work, as may the failure to use original components. When using prosthetic components it is important to follow the instructions given by the dentist and the dental technician. When using prosthetic components in the oral cavity it is important to respect the final tightening value which must be between 20 and 30 Ncm, as better specified in the catalogue.

Collateral effects

Today there are no known collateral effects in the use of I-RES components that can endanger the patient's health.

Prosthetic planning:

The choice of the I-RES components to be used for the case is the specific responsibility of the dentist and of the dental technician, depending on their re- quirements.

Materials and packaging:

All I-RES prosthetic components are packed in such a way as to be immediately identifiable, once removed from their pack; it is important for the operator to pay great attention in identifying them to avoid changes of position during work. It is useful to make note of the material batch used on the patient's file, for the purpose of traceability. Whether it has been processed or not, before inserting the I-RES prosthetic component in the oral cavity it is of fundamental importance that it be washed and sterilized. Some I-RES components are single-use, so intended for only one patient.

Cleaning | sterilization | storage:

Caution !!! All prosthetic components for dental implants are sold NON-STERILE.

Before use, all prosthetic components must be cleaned, disinfected and sterilized. These process- es must also be performed before intraoral use, i.e. before each use for any test phases and in any case before final restoration loading. Repetition of the pro- cesses described in this paragraph does not alter the characteristics of these devices. Failure to follow these indications may lead to the onset of infections and complications for the implant and, more generally, for the patient. Important: care must be taken during the subsequent phases in preserving the zone of the connection with the implant (hexagon/octagon/ threading).

a. Cleaning:

In case of automatic cleaning: use an ultrasound bath with a suitable detergent solution. Use neutral detergents only. Follow the manufacturer's instructions concerning concentrations and washing times. Use demineralised water to prevent the formation of stains and marks.

When cleaning manually: use a suitable neutral de- tergent and follow the manufacturer's user instruc- tions. Brush the products with a soft-bristled brush (non-metal bristles) under running water. Use the brush to apply the detergent to all surfaces. Rinse with dis- tilled water. After rinsing, dry the devices thoroughly and place them inside suitable sterilization bags.

b. Sterilization:

Place in a vacuum autoclave and sterilize as follows: Temperature = 121 – 124°C, with autoclave cycle of at least 20 minutes and drying cycle of 15 minutes.

c. Storage:

After sterilization, the product must remain in the sterilization bags. Only open the bags immediately prior to use. In normal conditions, sterilization bags main- tain the sterility of the contents, unless the wrapping is damaged. Therefore, do not use components if the bags in which they were kept are damaged, and rest- erilizes in new bags before using them again. The stor- age time of products sterilized inside the bags should not exceed that recommended by the manufacturer of the bags.

The product must be stored in a cool dry place, away from direct sunlight, water and heat sources.

ATTENTION:

Some components such as transfers and healing screws are devices that can be reused after.

CLEANING/STERILIZATION/STORAGE (follow the re- spective indications).

DO NOT REUSE a device classified as SINGLE-USE. Although it cannot be seen, it could be mechanically deformed or have been contaminated.

Disposal procedures:

If removed from the oral cavity due to biological or mechanical failure, the prosthetic components must be disposed of as biological waste according to local regulations. More detailed information on the use of the medical device can be found in the specific Sur- gical Protocol available on the site www.i-res-group. com or in the IRES Shape1 catalogue supplied by the Manufacturer.

Symbols on the package:

MANUFACTURER
I-RES® SAGL Piazzale Roncaa 4
6850 Mendrisio [Switzerland]
info@ires.dental
www.ires.dental

EC REP — European Authorized Representative
IESS GROUP SRL Via Madonna della Salute 23 - 33050 Pozzuolo del Friuli (UD) [Italy]

CE 0426 — CE Mark according to standard MDD93/42/EEC

LOT — Batch number

use before the expiry date

Do not reuse

Follow the instructions given in the illustrative leaflet

Do not expose to direct sunlight

Do not expose to rain and keep in an environment free from damp

Do not use if the packaging is damaged

NON STERILE — not sterile

INSTRUCTIONS FOR iRES ROTARY INSTRUMENTS (DRILLS - COUNTERSINKS - TAPS) FOR THE PREPARATION OF THE SITE THAT HAS TO RECEIVE IRES® SHAPE1® IMPLANTS

Product description:

Dental drills, produced by I-RES Sagl, must be used as tools to perforate the bone. The diameters to be used, the lengths and the drilling sequence (number of drills to be used) are the sole choice and decision of the dentist, depending on the surgical protocol that must be followed. The maximum recommended speed is 800 rpm with saline solution applied directly on the drill to assist cooling.

a) The sole purpose of the initial precision drill is to incise the cortical bone in a very precise point where it will later be drilled.

b) The helical drills have laser markings for reference which identify the depth to be reached. Of course, in the use of this type of drill the manual skill and experience of the dental surgeon are extremely important, especially for stopping at the chosen depth.

c) Countersinks are used when it is necessary to widen the initial part of the hole made to adapt the shape that of the neck of the implant to be inserted. The maximum recommended speed is 300 rpm with saline solution applied directly on the drill to assist cooling.

d) Bone taps: in particularly dense bone (type I), before insertion it is advisable to use a bone tap with the same profile as the implant to be inserted. The bone tap has a greater cutting power than the implant, al- lowing the site to be prepared with reduced trauma. The maximum recommended speed is 30 rpm with saline solution applied directly on the bone tap to

assist cooling.

Materials used:

All I-RES Sagl drills are made of medical grade steel and undergo hardening heat treatment. The maximum recommended number of uses of the devices is 40 times.

Warnings and general precautions:

• It is fundamental to respect the surgical protocol that establishes the diameters, lengths and the se- quence of use. The operator is fully responsible for any uses other than those indicated.

•Check that the drills to be used are in good condition, already cleaned and sterilized.

• Check that the drills are in good condition and have not been used more than 40 times.

• Before using them, check that the hand-piece holds the drills perfectly secure and that they rotate in the correct direction.

• Ensure that there is adequate irrigation.

• The application of leverage during drilling could cause breakage of the drill, the hand-piece, or the

bone walls on which you are working.

During drilling always exert alternating pressure, using the intermittent drilling technique.

• Always check that the laser marking that indicates diameter and length is clearly visible.

• Any eccentricity or lack of straightness in the drill could result in an oversized hole.

• Wear eye protection, to protect against particles that may be ejected.

CLEANING / STERILIZATION / STORAGE:

The medical devices are supplied NON-STERILE.

Before use, all rotary devices must be cleaned, disinfected and sterilized.

Failure to follow these indications may lead to the onset of infections and complications for the implant and, more generally, for the patient.

a. Cleaning

In case of automatic cleaning: use an ultrasound bath with a suitable detergent solution. Use neutral detergents only. Follow the manufacturer's instruc- tions concerning concentrations and washing times. Use demineralised water to prevent the formation of stains and marks.

When cleaning manually: use a suitable neutral de- tergent and follow the manufacturer's user instruc- tions. Brush the products with a soft-bristled brush (non-metal bristles) under running water. Use the brush to apply the detergent to all surfaces. Rinse with distilled water. After rinsing, dry the devices thoroughly and place them inside suitable steriliza- tion bags.

b. Sterilization

Place in a vacuum autoclave and sterilize as follows: Temperature = 121 – 124°C, with autoclave cycle of at least 20 minutes and drying cycle of 15 minutes.

c. Storage

After sterilization, the product must remain in the sterilization bags. Only open the bags immediately prior to use. In normal conditions, sterilization bags main- tain the sterility of the contents, unless the wrapping is damaged. Therefore, do not use components if the bags in which they were kept are damaged, and re-sterilize in new bags before using them again. The storage time of products sterilized inside the bags should not exceed that recommended by the man- ufacturer of the bags. The product must be stored in a cool dry place, away from direct sunlight, water and heat sources.

More detailed information on the use of the medical device can be found in the Surgical Protocol. If you do not have a copy, request one from your distributor or directly from the manufacturer.

Symbols on the package:

MANUFACTURER
I-RES® SAGL Piazzale Roncaa 4
6850 Mendrisio [Switzerland]
info@ires.dental
www.ires.dental

European Authorized Representative
IESS GROUP SRL Via Madonna della Salute 23 - 33050 Pozzuolo del Friuli (UD) [Italy]

CE Mark according to standard MDD93/42/EEC

Batch number

Follow the instructions given in the illustrative leaflet

Do not expose to direct sunlight

Do not expose to rain and keep in an environment free from damp

Do not use if the packaging is damaged

Not sterile

INSTRUCTIONS FOR USE OF CLASS I PROSTHETIC COMPONENTS AND SURGICAL INSTRUMENTS

The I-RES implant-prosthetic system is intended for use in the oral cavity and is provided with useful components to enable the dentist and the dental techni- cian to prosthetically complete the operation begun by the dentist by inserting the implant in the patient. The I-RES implant-prosthetic system completes the line of I-RES dental implants and the respective I-RES instruments..

Product characteristic

Transfer

The transfer in gr. 5 titanium is the tool that allows to transfer, from the mouth to a replica model, the information useful for the prosthetic connection and the construction of the respective prosthesis. There are different types of transfers and they are all made up of two parts (a screw and a repositioner). After being inserted into the implant and firmly screwed to it by means of the screw, the transfer is ready to be detected in its position in the oral cavity by means of an impression.

Analog

The analogue is made of gr. 5 titanium and has the function to reproduce the internal characteristics of the implant and must be firmly fixed to the transfer. Once joined, the model can be poured.

Castable abutments

The compatible castable abutments are the most economical and practical prosthetic solution in the implantology field, consisting of a base in castable material such as POM that allow the dental technician to model an implant abutment in wax or resin starting from a pre-built castable base. These abutments will then be completed in their missing anatomical parts by the dental technician and subsequently the entire abutment will be invested and cast in metal alloys. The abutment that will come out of the casting machine will be a replica of the castable base and the modeled portion.

Steel surgical instruments in steel

Ratchet connectors, handpiece connectors, manual screwdrivers, prosthetic screwdrivers, etc., in stainless steel, provide the user with surgical instruments for performing proper dental surgery.

Contraindications:

Do not use I-RES products on patients who have allergies to the materials of which the component is made. The use of I-RES components in patients who have metabolic and periodontal diseases or poor oral hygiene may be prejudicial to the success of the work, as may prosthetic constructions not in line with international standards. The lack of periodic controls, which the patient must undergo with his dentist after prosthetisation, may compromise the life of the im-plant-prosthetic system.

Warnings:

I-RES prosthetic components are reserved for use by personnel with knowledge of the subject. I-RES points out that alterations to the implant/post connections may be prejudicial to the success of the work, as may the failure to use original components. When using prosthetic components it is important to follow the instructions given by the dentist and the dental technician. When using prosthetic components in the oral cavity it is important to respect the final tightening value which must be between 20 and 30 Ncm, as better specified in the catalogue.

Collateral effects

Today there are no known collateral effects in the use of I-RES components that can endanger the patient's health.

Prosthetic planning:

The choice of the I-RES components and surgical instruments to be used for the case is the specific responsibility of the dentist and of the dental technician, depending on their re- quirements.

Materials and packaging:

All I-RES prosthetic components and surgical instruments are packed in such a way as to be immediately identifiable; once removed from their pack, it is important for the operator to pay great attention in identifying them to avoid changes of position during work. It is useful to make note of the material batch used on the patient's file, for the purpose of traceability.
Whether it has been processed or not, before inserting the I-RES prosthetic component in the oral cavity it is of undamental importance that it be washed and sterilized. Some I-RES components are single-use, so intended for only one patient.

CLEANING | STERILIZATION | STORAGE:

Caution !!! All prosthetic components for dental implants are sold NON-STERILE.

Before use, all prosthetic components must be cleaned, disinfected and sterilized. These processes must also be performed before intraoral use, i.e. before each use for any test phases and in any case before final restorationloading. Repetition of the processes described in this paragraph does not alter the characteristics of these devices. Failure to follow these indications may lead to the onset of infections and complications for the implant and, more generally, for the patient.

Important care must be taken during the subsequent phases in preserving the zone of the connection with the implant (hexagon/octagon/ threading).

a. Cleaning:

In case of automatic cleaning: use an ultrasound bath with a suitable detergent solution. Use neutral detergentsonly. Follow the manufacturer's instructions concerning concentrations and washing times. Use demineralised water to prevent the formation of stains and marks.

When cleaning manually: use a suitable neutral detergent and follow the manufacturer's user instructions. Brush the products with a soft-bristled brush (non-metal bristles) under running water. Use the brush to apply the detergent to all surfaces. Rinse with distilled water. After rinsing, dry the devices thoroughly and place them inside suitable sterilization bags.

b. Sterilization:

Place in a vacuum autoclave and sterilize as follows: Temperature = 121 – 124°C, with autoclave cycle of at least 20 minutes and drying cycle of 15 minutes.

c. Storage:

After sterilization, the product must remain in the sterilization bags. Only open the bags immediately prior to use. In normal conditions, sterilization bags maintain the sterility of the contents, unless the wrapping is damaged.

Therefore, do not use components if the bags in which they were kept are damaged, and resterilizes in new bags before using them again. The stor- age time of products sterilized inside the bags should not exceed that recommended by the manufacturer of the bags.

The product must be stored in a cool dry place, away fromdirect sunlight, water and heat sources.

ATTENTION:

Some components, such as transfer and surgical instruments, are devices that can be reused after. prior follow the respective indications reported in CLEANING/STERILIZATION/STORAGE.

DO NOT REUSE a device classified as SINGLE-USE.

Although it cannot be seen, it could be mechanically deformed or have been contaminated.

Disposal procedures:

If removed from the oral cavity due to biological or mechanical failure, the prosthetic components must be disposed of as biological waste according to local regulations. More detailed information on the use of the medical device can be found in the specific Surgical Protocol available on the site www.ires.dental or in the IRES catalogue supplied by the Manufacturer.

SIMBOLS ON THE PACKAGE

Manufacturer
I-RES® SAGL
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6850 Mendrisio [Switzerland]
info@ires.dental
www.ires.dental

European Authorized Representative
IESS GROUP SRL Via Madonna della Salute 23 - 33050 Pozzuolo del Friuli (UD) [Italy]

CE mark under MDR 17/745

Batch number

Use before the expiry date

Do not reuse

Follow the instructions given in the illustrative leaflet

Do not expose to direct sunlight

Do not expose to rain and keep in an environment free from damp

Do not use if the packaging is damaged

Not sterile

iRES SAGL, a dynamic and flexible company sensitive to the needs of Professionals, offers a complete range of products for oral surgery: **regenerative materials**, **implant systems**, **guided surgery**, **custom prosthesis**, **Total Implant Care solutions**, **high-level scientific courses** and programs with Key **Opinion Leaders**.

iRES combines practical experience and **scientific knowledge** to **facilitate procedures** and **improve performance**. This is all possible thanks to a highly professional staff with more than **30 years of experience** in the dental field.

The sales system, based on a **Continuing Education**, involves all Professionals in our scientific programs. **Customer satisfaction is our mission.** High swiss quality meets **advanced technology** to provide an **innovative product concept** and **economically sustainable solutions**.

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