

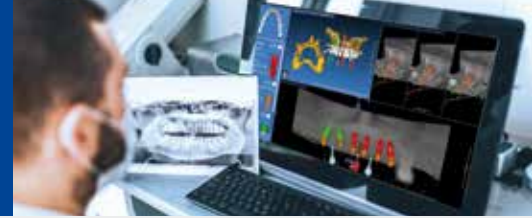
ICX-MAGELLAN X

MANUAL 3.0



THE DIGITAL ICX-WORKFLOW IN IMPLANTOLOGY.
3D solutions for diagnostics and backward planning.

BE SMART. BE ICX.



The implant planning software of the future.

CONTENT

1. INTRODUCTION	4
1.1 Product information	4
1.2 Healing options.....	4
2. PRODUCT OVERVIEW	4
2.1 ICX Implants, ICX MAGELLAN and Instruments	6-9
2.2 ICX-MAGELLAN-Box Contents	10/11
3. APPLICATION	12
3.1 Impression taking and model fabrication.....	12
3.2 Wax-up and Set-up.....	12
3.3 X-ray diagnostics and planning	12
3.4 From planning to the ICX drilling template.....	12
3.5 Optional: ICX-IMPERIAL - Fixed teeth, immediately!.....	13
ICX-MAGELLAN drilling protocol and application example.....	14/15
Instructions: template fixing.....	16/17
Instructions: Implant preparation and insertion	18/19
ICX-MAGELLAN - Complete article overview	20-26
Service and contact	27

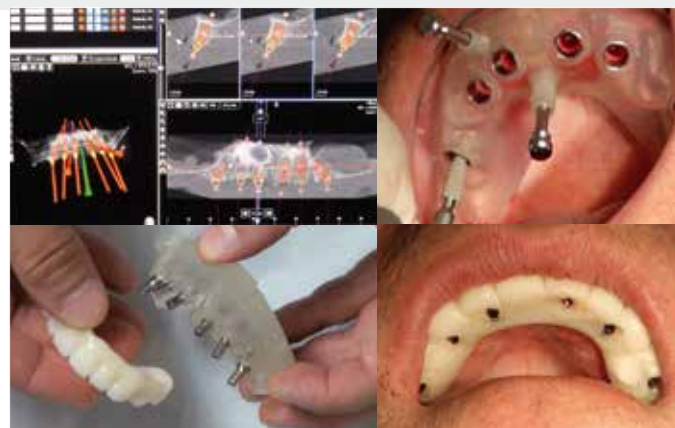


medentis
medical



The implant planning software of the future.

ICX-MAGELLAN X



1. INTRODUCTION

1.1 Product information

The ICX-MAGELLAN drill set is mandatory within the ICX-magellan system, for use in template-guided implant bed preparation and insertion of ICX implants. The indications are varied and on edentulous and partially edentulous upper and lower jaws.

Parts of the complete set:

- Surgical instruments for template-guided enossal or periodontal supported implant bed preparation and implant placement
- Laboratory instruments for the conversion of a planning scabbard into a drilling scabbard.

To use the ICX-MAGELLAN system, the following must be available the practice or laboratory must have the ICX-MAGELLAN- 3D planning software.

In the practice or in the dental laboratory, a planning planning is created with the help of the ICX MAGELLAN software. The ICX experts then create an ICX-MAGELLAN drilling template.

Through the individually manufactured drilling template the surgical instruments of the of the ICX MAGELLAN system during implant bed preparation as well as the ICX implants during the insertion.

Note:

medentis medical GmbH assumes no liability for the correct planning, execution and implementation of the surgical template.

Before using the ICX-MAGELLAN system, the user urgently needs to familiarise himself intensively with the 3D planning system and the positioner.

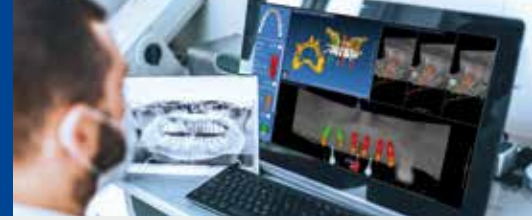


1.2 Healing options

The healing options are optional:

- transgingival healing with gingiva former
- transgingival healing with long-term temporary restoration as immediate restoration.
- Subgingival healing with closure screw

ICX-MAGELLAN X MANUAL 3.0



The implant planning software of the future.



The implant planning software of the future.

2.1 PRODUCT OVERVIEW

D1 drill pink ●●●



Important notice:
Drill for hard bone, D1
can be recognised by
the colour marking =
3 pink dots

D2-3 drill pink ●●



Important notice:
Drills for soft/medium
hard bone, D3/D2
can be recognised by
the colour marking =
2 pink dots

D4 drill pink ●



Important notice:
Drill for very soft bone
D4, can be recognised
by the colour marking =
1 pink dot



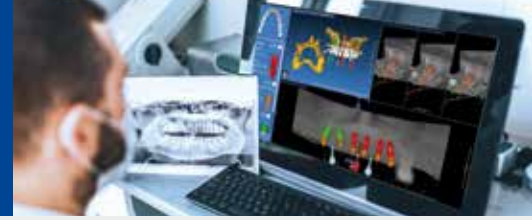
Stop drill-pink ●



Gingiva punch-pink ●



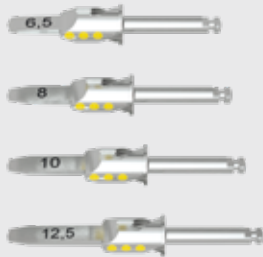
ICX-MAGELLAN X MANUAL 3.0



The implant planning software of the future.

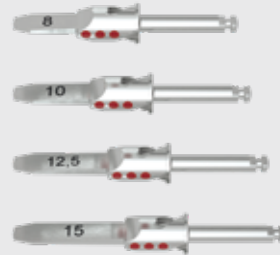
2.1 PRODUCT OVERVIEW

D1-Drill yellow ●●●



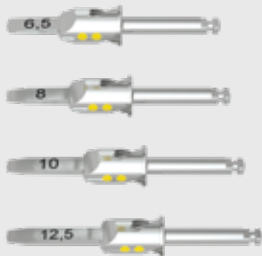
Important notice:
Drill for hard bone, D1
can be recognised by
the colour marking =
3 yellow dots

D1-Drill red ●●●



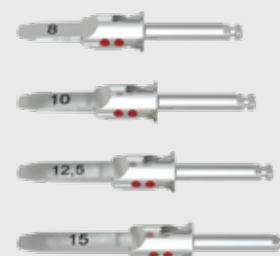
Important notice:
Drill for hard bone, D1
can be recognised by
the colour marking =
3 red dots

D2-3-Drill yellow ●●



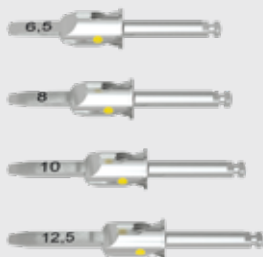
Important notice:
Drills for soft/medium
hard bone, D3/D2
can be recognised by
the colour marking =
2 yellow dots

D2-3-Drill red ●●



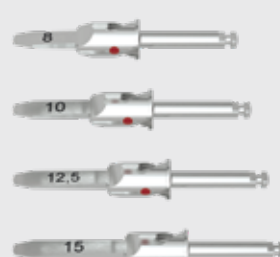
Important notice:
Drills for soft/medium
hard bone, D3/D2
can be recognised by
the colour marking =
2 red dots

D4-Drill yellow ●



Important notice:
Drill for very soft bone
D4, can be recognised
by the colour marking =
1 yellow dot

D4-Drill red ●



Important notice:
Drill for very soft bone
D4, can be recognised
by the colour marking =
1 red dot



Stop drill-yellow ●



Gingiva punch-yellow ●



Stop drill-red ●

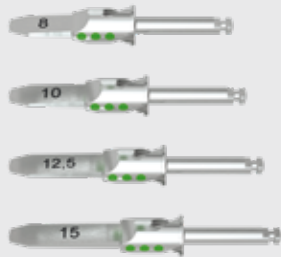


Gingivastanze-red ●

The implant planning software of the future.

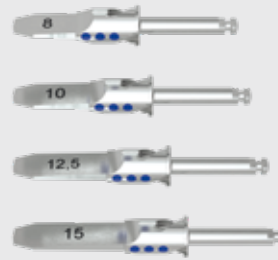
2.1 PRODUCT OVERVIEW

D1-Drill green ●●●



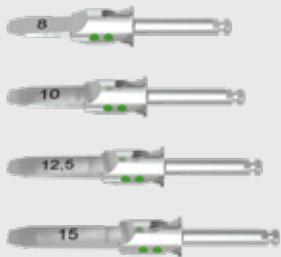
Important notice:
Drill for hard bone, D1
can be recognised by
the colour marking =
3 green dots

D1-Drill blue ●●●



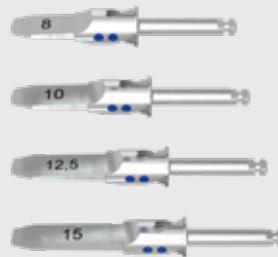
Important notice:
Drill for hard bone, D1
can be recognised by
the colour marking =
3 blue dots

D2-3-Drill green ●●



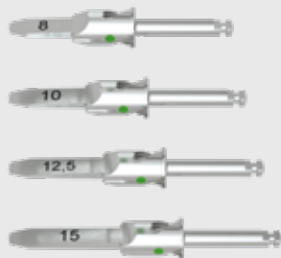
Important notice:
Drills for soft/medium
hard bone, D3/D2
can be recognised by
the colour marking =
2 green dots

D2-3-Drill blue ●●



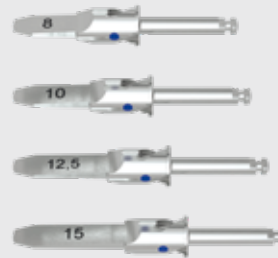
Important notice:
Drills for soft/medium
hard bone, D3/D2
can be recognised by
the colour marking =
2 blue dots

D4-Drill green ●

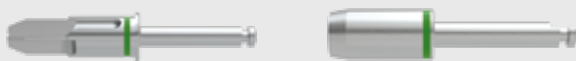


Important notice:
Drill for very soft bone
D4, can be recognised
by the colour marking =
1 green dot

D4-Drill blue ●



Important notice:
Drill for very soft bone
D4, can be recognised
by the colour marking =
1 blue dot



Stop drill-green ●

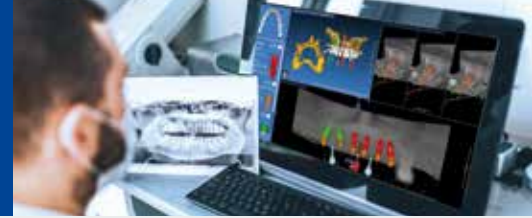
Gingiva punch-green ●



Stop drill-blue ●

Gingiva punch-blue ●

ICX-MAGELLAN X MANUAL 3.0



The implant planning software of the future.

2.1 PRODUCT OVERVIEW - ACCESSORIES

C-032-000008
Drill guide sleeve



Inside Ø 4,85mm
Outside hex 5,6mm
Collar Ø 5,6mm

C-032-000006
Universal drill-
guide sleeve
Ø 2,2mm



Inner Ø 2,2mm
Outside Ø 2,95 mm
Collar Ø 3,3mm

C-032-000014
Insertion instrument
for all implants
Important:
except ICX-plus



C-032-000015
Insertion instrument
for ICX-plus
yellow colour ring



C-032-000020
Fixing-drill
Ø 1,5mm



C-032-022110
Universal drill
Ø 2,2 Drill length
up to 10mm



C-032-022150
Universal drill
Ø 2,2 Drill length
up to 15mm



C-032-000002
Guide sleeve
with mounting pin



Inner Ø 1,5mm
Outside Ø 2,4mm
Collar Ø 2,8mm

C-032-000022
pilot drill L=6,5mm
for all implants
Important:
except ICX-plus



C-032-000009
Fixing pin short



C-032-000021
Pre-drill
for all implants



C-032-020110
ICX-MAGELLAN
Universal drill
Ø 2,0mm, short



C-032-000007
ICX-MAGELLAN
Universal spoon
Ø 2,0mm



C-032-000013
Fixing pin



C-015-100025
Hexagonal instrument
SW 1.4



C-015-110020
Insertion instrument
screwable ISO-shank
+2.0mm



C-032-000026
ICX-3.3 Insertion
instrument



C-032-000025
ICX-3.3 Magellan
Pre-drill



C-032-000024
ICX-3.3
Cortical drill



C-032-000017
TL Magellan
Insertion tool
Ball detent



C-015-110020
Insertion instrument
screwable
ISO shank +2.0mm



The implant planning software of the future.

2.2 OVERVIEW OF CONTENTS



Now with drills
for ICX-3.3 implants!

Content:

57 Drill

5 gingival punches

5 stop drills

Accessories:

4 anchor pins

1 Drill for anchor pins

4 pilot drill

1 insertion instrument for ICX

1 insertion instrument for ICX-plus

1 insertion instrument for ICX-3.3

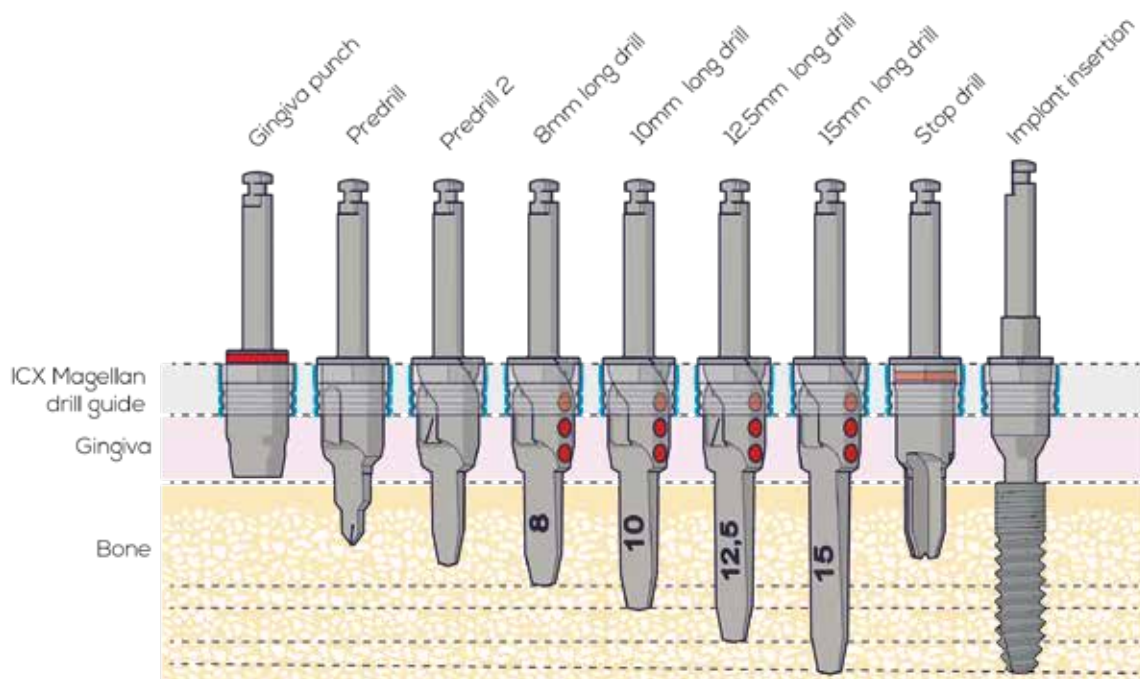
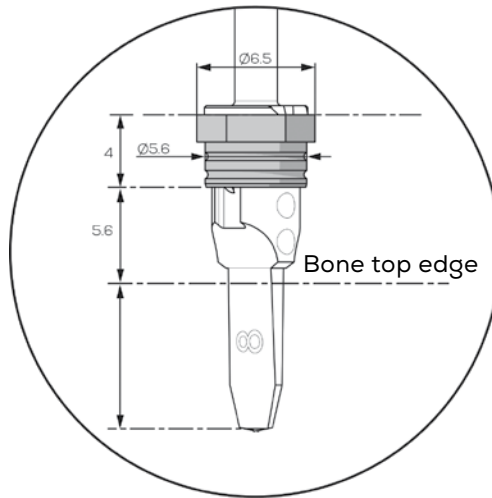
1 universal drill



ICX-MAGELLAN X MANUAL 3.0



The implant planning software of the future.



ICX-MAGELLAN X

Implant safely and/or immediately provide temporary/final restoration.

The components of ICX-MAGELLAN are used for the template-guided preparation of the implant bed and insertion of ICX implants.

- Laboratory instruments for converting a planning template into a drilling template.
- Surgical instruments for template-guided, endosseous or periodontal supported implant bed preparation and implant insertion

The implant planning software of the future.

3. APPLICATION

3.1 Impression taking and model fabrication

Sufficiently partially edentulous jaw

The prerequisite for taking an impression of the oral situation and fabricating a master model is a sufficiently stable and repositionable fixation of a planning template with the existing teeth in the case of a partially edentulous jaw.

Toothless or insufficiently dentate jaws

If a sufficiently stable fixation of a planning template is not guaranteed in an edentulous or partially edentulous jaw, the template is placed in sufficient numbers by means of fixing pins. It should be noted that at least three should be anchored in the edentulous jaw in order to be able to fix the planning template exactly in the mouth later. In order to ensure unhindered insertion of the ICX implants, care must be taken to ensure the best possible mechanical stability.

3.2 Wax-up and Set-up

In order to determine the optimum tooth position for the subsequent restoration from a prosthetic point of view, a wax-up/set-up of the teeth to be replaced is created on the master model. This is scanned, read into the ICX-magellan-software and is used as a guideline for the digital planning. digital planning.

3.3 X-ray diagnostics and planning

A Dicom 3.0 file is created with the double scan technique (CT/DVT). Likewise, the current scan prosthesis alone is recorded and digitised.

In the case of residually toothed, not heavily restored jaws, the double scan technique can be dispensed with.

The data thus obtained is then read into the ICX-MAGELLAN 3D planning software. When the planning of the implant positions in the 3D software is completed, the data for setting the positioner is calculated.

The following safety distances must be observed:

- 3.0 mm to the adjacent implant.
- Implant diameter and length must be determined so that there is sufficient bone (at least 1.0 mm) around the implant.
- 2.0 mm to the mandibular nerve or inferior alveolar nerve.
- 1.5 mm to the adjacent natural tooth.

3.4 From planning to the ICX drilling template

The ICX-MAGELLAN planning software allows you to order your personal and individual drilling template simply by „uploading“.



ICX-MAGELLAN X HANDBUCH 3.0



The implant planning software of the future.

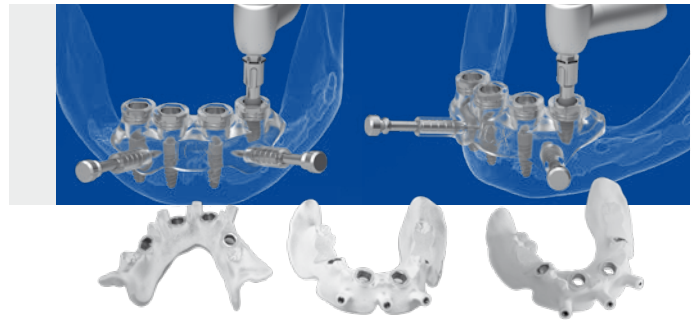
3.5 OPTIONAL: ICX-IMPERIAL - FIXED TEETH, NOW!

... everything from one source!

1) ICX-MAGELLAN:

Up to three MAGELLAN drilling templates
& one printed 3D model

- ICX Magellan expert planning
- individual drilling templates, incl. sleeves
- 3D model with positioned model analogues



2) ICX-PREMIUM-IMPLANT-SYSTEM:

Implants & Abutments

- selected ICX-PREMIUM and
ICX-ACTIVE-MASTER implants
- ICX-MULTI abutments
- Titanium prosthetic abutments



3) ICX-SmileBridge:

Finished milled temporary restoration

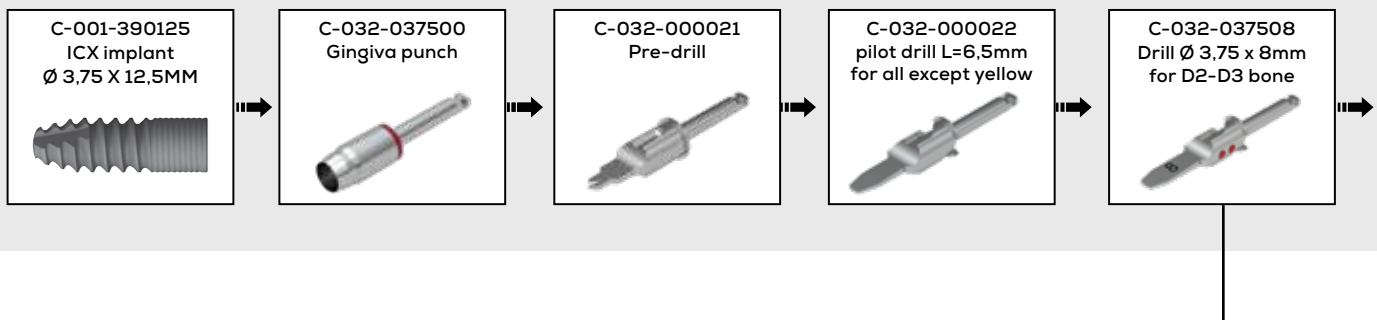
- individual, prefabricated, milled, multicolour PMMA bridge
- mouth stable up to 6 years



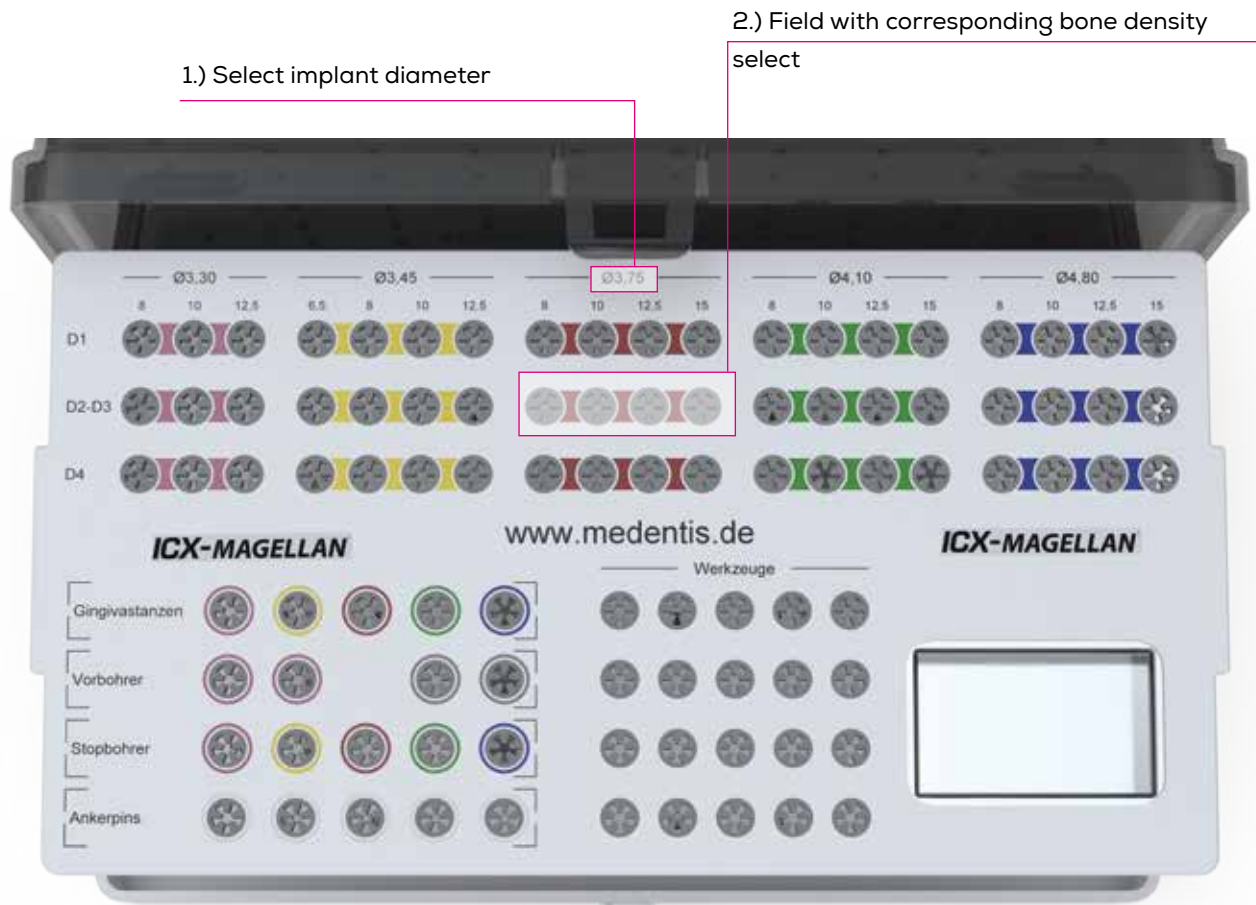
The implant planning software of the future.

DRILLING PROTOCOL & APPLICATION EXAMPLE: Drilling protocol - ICX-MAGELLAN on the ICX implant \varnothing 3.75 x 12.5mm

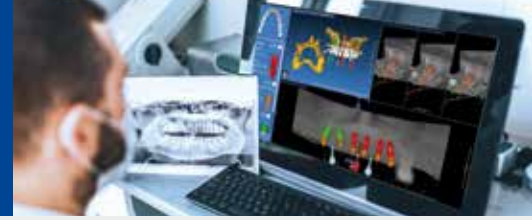
ICX-Implant \varnothing 3,75 x 12,5mm



Explanation of the application example - procedure is applicable to all ICX implant diameters and bone thicknesses



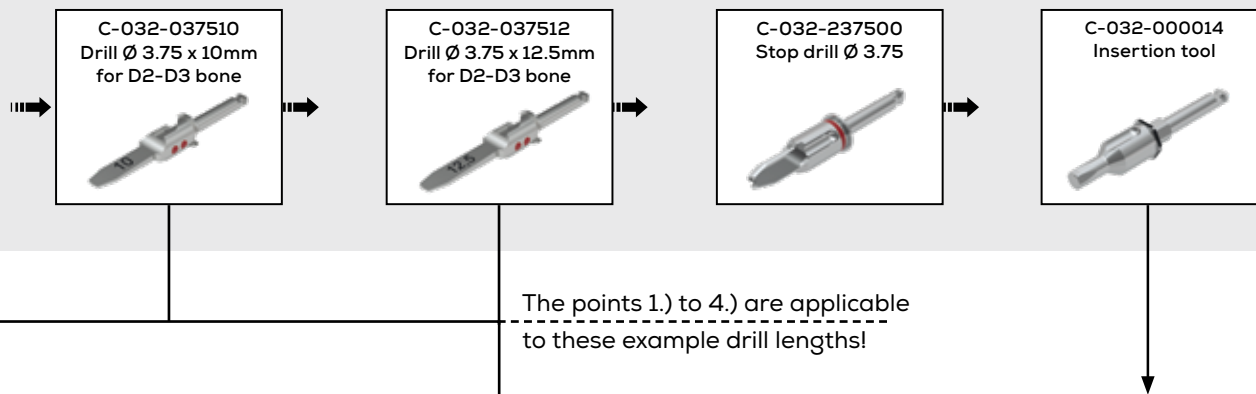
ICX-MAGELLAN X MANUAL 3.0



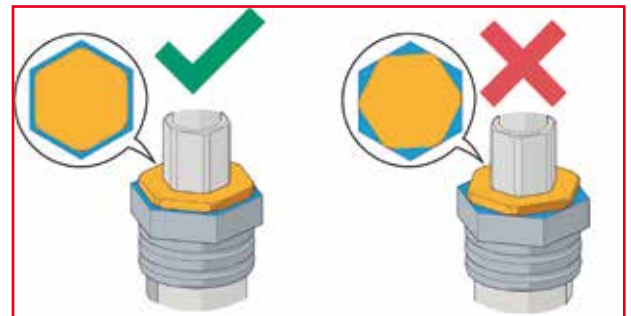
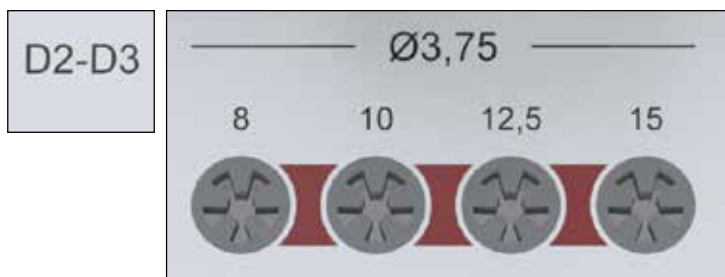
The implant planning software of the future.

DRILLING PROTOCOL & APPLICATION EXAMPLE:

Drilling protocol - ICX-MAGELLAN on the ICX implant \varnothing 3.75 x 12.5mm



The points 1.) to 4.) are applicable
to these example drill lengths!



IMPORTANT NOTICE:

For angled and prosthetic abutments, always align the hexagon of the insertion instrument with the sleeve hexagon.

3) Start with the smallest drill length (8mm).

4) Continue with each additional drill until the desired
desired implant length (in the example here: 12.5mm) is reached.

IMPORTANT NOTICE: The stop drill is mandatory as the last drilling sequence!

5) Implant insertion: For ICX implants take art. no.: C-032-000014

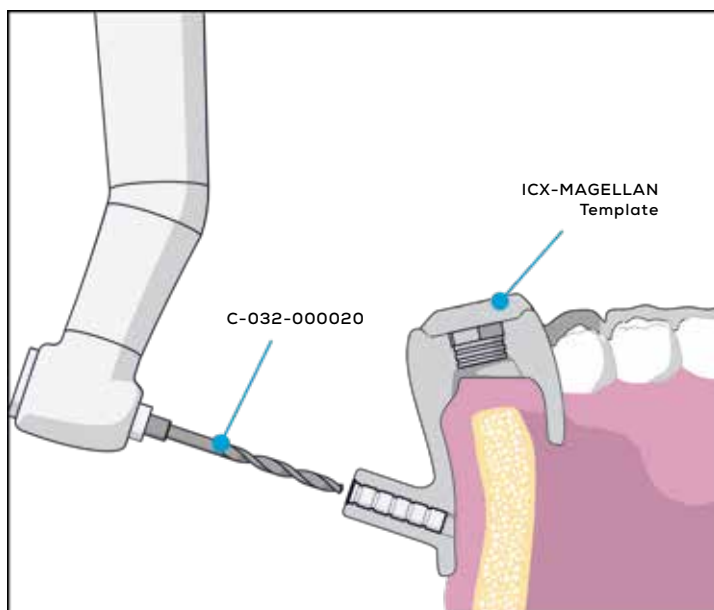
For ICX-plus implants take Art.-No.: C-032-000015

(The insertion instrument for ICX-plus can be recognised by the yellow ring!)

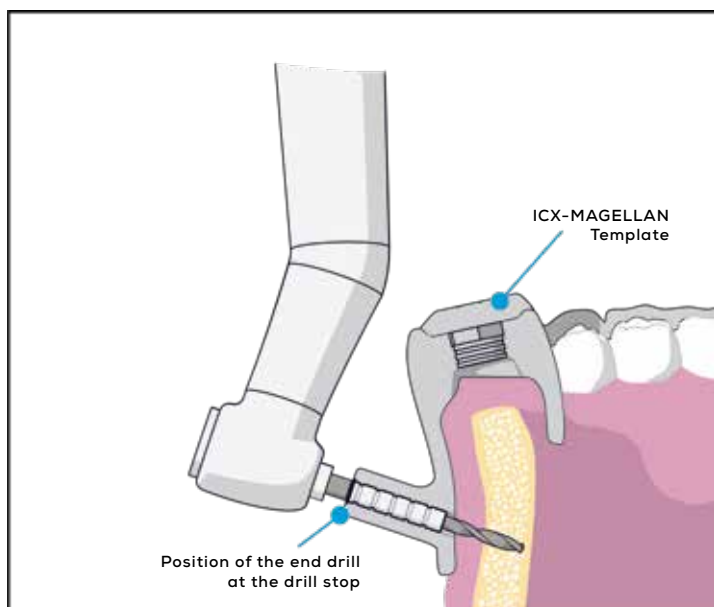
6) Drill speed: All drills except BLUE 500 rpm - BLUE: 400 rpm - Gingiva punch: 15 rpm

The implant planning software of the future.

INSTRUCTIONS: TEMPLATE FIXING

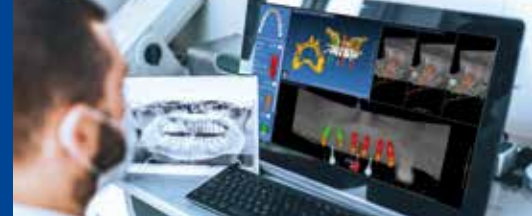


**STEP 1A
DRILL HOLE**



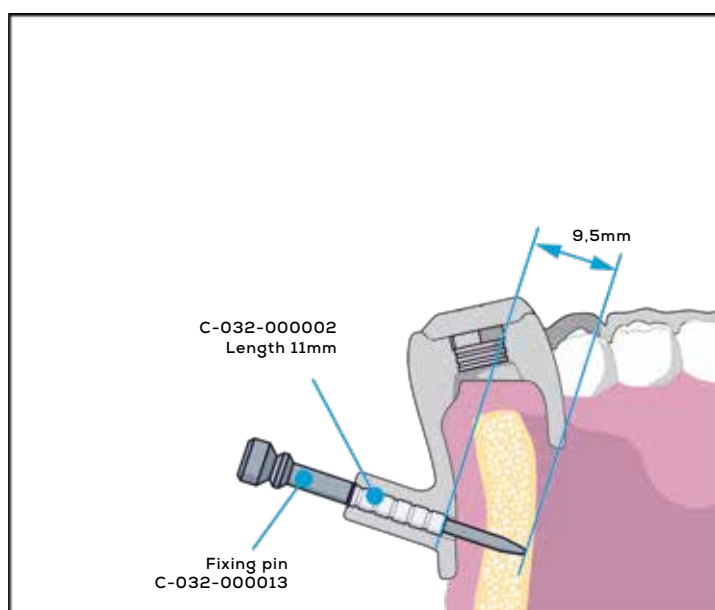
**STEP 1B
DRILL HOLE**

ICX-MAGELLAN X MANUAL 3.0



The implant planning software of the future.

INSTRUCTIONS: TEMPLATE FIXING



STEP 2
FIX

*IMPLANTING EVEN MORE SAFELY WITH
ICX - THE FAIR PREMIUM IMPLANT SYSTEM ...*

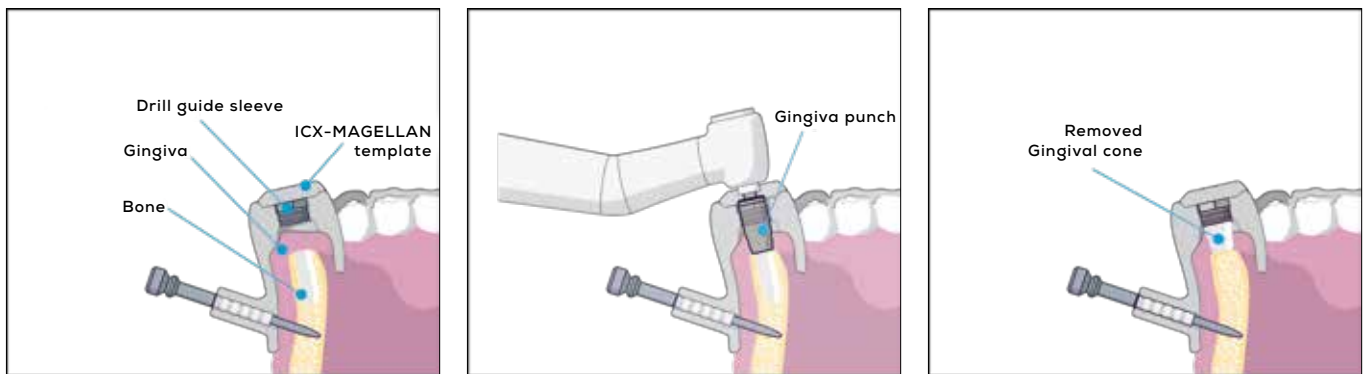
ICX DAS FAIRE
PREMIUM
IMPLANTAT-
SYSTEM.

The implant planning software of the future.

INSTRUCTIONS: IMPLANT BED PREPARATION AND INSERTION

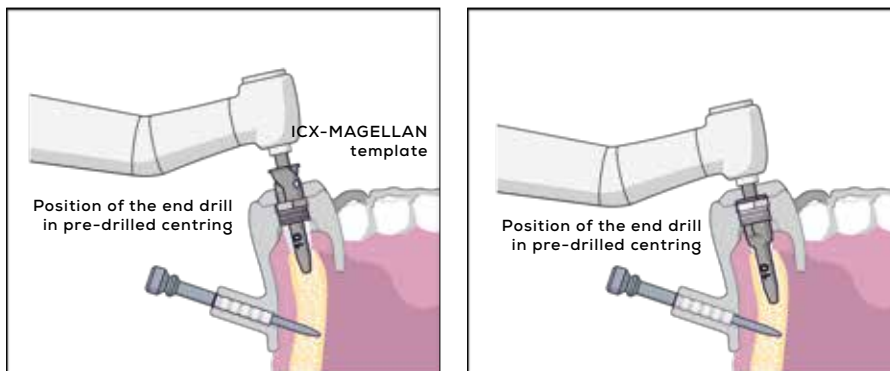
STEP 1

Preparation of the implant bed



STEP 2

Drilling according to protocol



Einfach einscannen
und ICX-MAGELLAN X®
online besuchen!

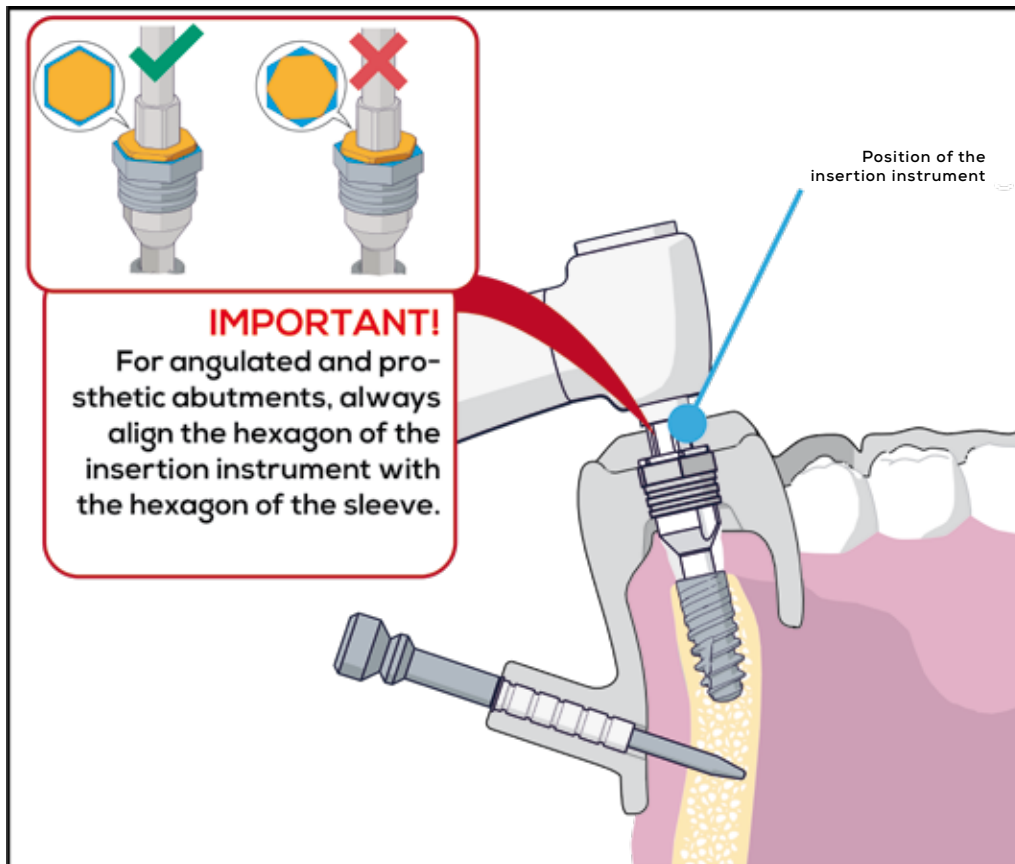
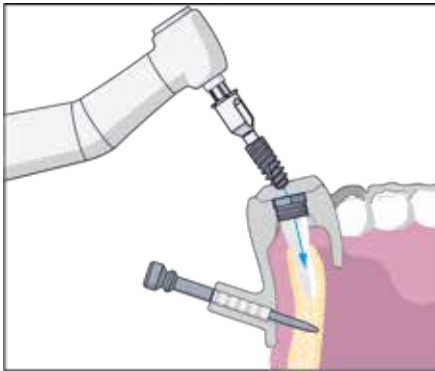


The implant planning software of the future.

INSTRUCTIONS: IMPLANT BED PREPARATION AND INSERTION












STEP 3

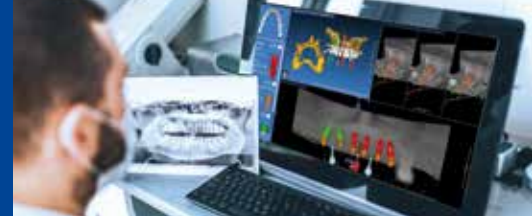
Implant insertion



The implant planning software of the future.















ICX-MAGELLAN ARTICLE-OVERVIEW

Article no.	ICX-3.3 Drill pink ●	Article
C-032-133008		D1 Drill pink 8mm
C-032-133010		D1 Drill pink 10mm
C-032-133012		D1 Drill pink 12,5mm
C-032-033008		D2-3 Drill pink 8mm
C-032-033010		D2-3 Drill pink 10mm
C-032-033012		D2-3 Drill pink 12,5mm
C-032-333008		D4 Drill pink 8mm
C-032-333010		D4 Drill pink 10mm
C-032-333012		D4 Drill pink 12,5mm
C-032-233000		Stop-Drill pink
C-032-033000		Gingiva punch pink

















The implant planning software of the future.

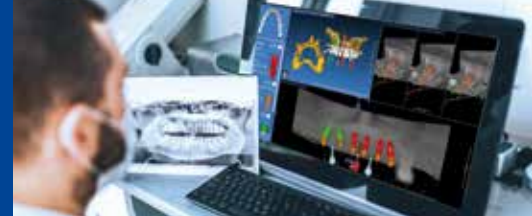
ICX-MAGELLAN ARTICLE-OVERVIEW

Article no.	ICX-3.45 Drill yellow ●	Article
C-032-134506		D1 Drill yellow 6,5mm
C-032-134508		D1 Drill yellow 8mm
C-032-134510		D1 Drill yellow 10mm
C-032-134512		D1 Drill yellow 12,5mm
C-032-034506		D2-3 Drill yellow 6,5mm
C-032-034508		D2-3 Drill yellow 8mm
C-032-034510		D2-3 Drill yellow 10mm
C-032-034512		D2-3 Drill yellow 12,5mm
C-032-334506		D4 Drill yellow 6,5mm
C-032-334508		D4 Drill yellow 8mm
C-032-334510		D4 Drill yellow 10mm
C-032-334512		D4 Drill yellow 12,5mm
C-032-234500		Stop-Drill yellow
C-032-034500		Gingiva punch yellow

The implant planning software of the future.















ICX-MAGELLAN ARTICLE-OVERVIEW

Article no.	ICX-3.75 Drill red ●	Article
C-032-137508		D1 Drill red 8mm
C-032-137510		D1 Drill red 10mm
C-032-137512		D1 Drill red 12,5mm
C-032-137515		D1 Drill red 15mm
C-032-037508		D2-3 Drill red 8mm
C-032-037510		D2-3 Drill red 10mm
C-032-037512		D2-3 Drill red 12,5mm
C-032-037515		D2-3 Drill red 15mm
C-032-337508		D4 Drill red 8mm
C-032-337510		D4 Drill red 10mm
C-032-337512		D4 Drill red 12,5mm
C-032-337515		D4 Drill red 15mm
C-032-237500		Stop-Drill red
C-032-037500		Gingiva punch red













The implant planning software of the future.

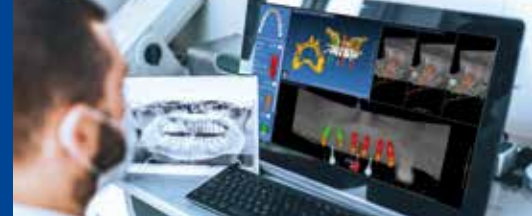
ICX-MAGELLAN ARTICLE-OVERVIEW

Article no.	ICX-4.1 Drill green ●	Article
C-032-141008		D1 Drill green 8mm
C-032-141010		D1 Drill green 10mm
C-032-141012		D1 Drill green 12,5mm
C-032-141015		D1 Drill green 15mm
C-032-041008		D2-3 Drill green 8mm
C-032-041010		D2-3 Drill green 10mm
C-032-041012		D2-3 Drill green 12,5mm
C-032-041015		D2-3 Drill green 15mm
C-032-341008		D4 Drill green 8mm
C-032-341010		D4 Drill green 10mm
C-032-341012		D4 Drill green 12,5mm
C-032-341015		D4 Drill green 15mm
C-032-241000		Stop-Drill green
C-032-041000		Gingiva punch green

The implant planning software of the future.














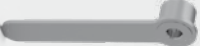



ICX-MAGELLAN ARTICLE-OVERVIEW

Article no.	ICX-4.8 Drill blue ●	Article
C-032-148008		D1 Drill blue 8mm
C-032-148010		D1 Drill blue 10mm
C-032-148012		D1 Drill blue 12,5mm
C-032-148015		D1 Drill blue 15mm
C-032-048008		D2-3 Drill blue 8mm
C-032-048010		D2-3 Drill blue 10mm
C-032-048012		D2-3 Drill blue 12,5mm
C-032-048015		D2-3 Drill blue 15mm
C-032-348008		D4 Drill blue 8mm
C-032-348010		D4 Drill blue 10mm
C-032-348012		D4 Drill blue 12,5mm
C-032-348015		D4 Drill blue 15mm
C-032-248000		Stop-Drill blue
C-032-048000		Gingiva punch blue












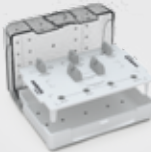
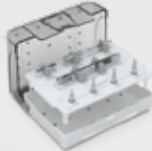
The implant planning software of the future.

ICX-MAGELLAN ARTICLE-OVERVIEW

Article no.		Article
C-032-000008		Bore guide sleeve, Inside Ø 4,85mm - Outside Ø 5,6mm
C-032-000002		Guide sleeve Ø inner 1,5 - Ø outer 2,4
C-032-000013		Fixing pins D1.5
C-032-000014		Insertion instrument for all implants Important: except ICX-TL
C-032-000015		Insertion instrument implant for ICX-TL yellow colour ring
C-032-000020		Fixing drill Ø1.5 for fixing pins
C-032-000021		Pre-drill all implants
C-032-000006		Universal drill guide sleeve Ø 2,2mm, inside Ø 2,2mm
C-015-100025		Hexagonal instrument SW 1.4
C-032-000022		Pre-drill L=6,5mm for all implants except ICX-plus
C-032-022110		Universal drill Ø 2.2 Drill length up to 10mm
C-032-022150		Universal drill Ø 2.2 Drill length up to 15mm
C-032-020110		ICX-MAGELLAN Universal drill Ø 2,0mm, short
C-032-000007		ICX-MAGELLAN Universal spoon Ø 2,0mm
C-015-110020		C-015-110020 - Insertion instrument screwable ISO-shank +2.0mm
C-032-000017		TL Magellan insertion instrument Ball detent
C-032-000016		Magellan insertion instrument Ball detent

The implant planning software of the future.

ICX-MAGELLAN ARTICLE-OVERVIEW

Article no.	Article description	Article
C-032-000023	ICX-3.3 Guide sleeve hex	
C-032-000024	ICX-3.3 Cortical Drill	
C-032-000025	ICX-3.3 Magellan pilot drill	
C-032-000009	Fixing pin short	
C-015-100000	Insertion instrument screwable ISO shaft	
C-015-110000	Insertion instrument screwable ISO shaft	
N-015-110000	ICX-3.3 Insertion instrument screwable ISO shaft	
N-015-110020	ICX-3.3 Insertion instrument screwable ISO-shank +2.0mm	
N-015-110025	ICX-3.3 Insertion instrument screwable ISO-shank +2.5mm	
C-018-100019	Magellan Bone Spreader Box filled	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">  </div> <div style="margin-right: 10px;"> <p>On sale soon!</p> </div> <div>  </div> </div>
C-018-000019	Magellan Bone Spreader Box unfilled	

ICX-MAGELLAN X MANUAL 3.0



The implant planning software of the future.

SERVICE HOTLINE:

Telephone support and advice at:

+49 (0)2641 9110-0

Monday - Friday, 07:30 - 19:00

E-mail: magellan@medentis.de

medentis medical GmbH
Walporzheimer Str. 48-52
53474 Bad Neuenahr-Ahrweiler
Deutschland/Germany

www.medentis.de



Visit ICX-MAGELLAN X®
online!

BE SMART. BE ICX.

medentis
medical



ICX THE FAIR
PREMIUM
IMPLANT-
SYSTEM.

ICX-MAGELLAN X MANUAL 3.0



THE DIGITAL ICX-WORKFLOW IN IMPLANTOLOGY.
3D solutions for diagnostics and backward planning.