

**CS** 2.0 2.7/3.2

Product information



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#### **CAUTION**

This product description is not sufficient for immediate use of instruments or implants. Induction training by an authorised person must be carried out prior to use of these instruments and implants.

Implants that have been removed from the sterile packaging and not used must not be re-sterilized and have to be discarded.

When using other makes of implant at the same time, it is important to note that steel, titanium and cobalt-chromium alloys in the surgical site must not be in direct contact with a MAGNEZIX\* implant for an extended period (physical contact between implants).

## MAGNEZIX® CS

#### THE MAGNEZIX® MATERIAL

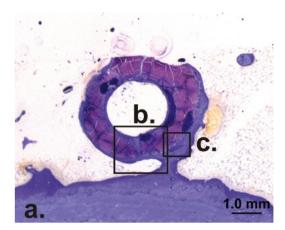
MAGNEZIX\* is a trademark for CE-certified implants manufactured from the world's first bioabsorbable material consisting of a magnesium alloy (MgYREZr) for medical applications.

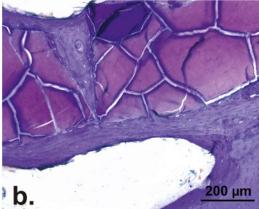
The biomechanical properties are very similar to those of human bone. MAGNEZIX® gradually transforms within the body and is replaced by endogenous tissue. Experimental studies also confirm that magnesium has an osteoconductive¹ effect and tends to inhibit infection².

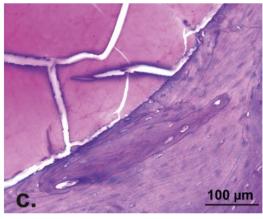
#### Advantages for users and patients

- → There is a complete homogeneous conversion (transformation) of the implant to the patient's endogenous tissue.
- → This complete transformation of the implant makes subsequent metal removal unnecessary.
- The mechanical properties are significantly better than those of conventional resorbable implants.
- Histological investigations show bone formation at the surface of the implant, as well as bone growth into the implant zones already transformed.
- → The use of MAGNEZIX® implants does not lead to so-called "stress shielding" (bone atrophy due to shielding from load) due to the bone-like biomechanical properties.³
- → In terms of application, MAGNEZIX® implants hardly differ from conventional implants. This is ensured by the adapted design, which takes the material and transformation properties into account.
- → MAGNEZIX® implants are radiologically visible, MRI-conditional and only generate minimal artifacts (see also the IFU regarding this).⁴

Histological evaluations of an animal study have shown complete conversion of the metal implant after a 12-month implantation period. Evidence was produced of bone formation with direct implant contact, as well as the presence of osteoblasts and osteoclasts.







Orthopädische Klinik der MHH

<sup>1</sup> Zreiqat et al.: Mechanisms of magnesium-stimulated adhesion of osteoblastic cells to commonly used orthopaedic implants. J Biomed Mater Res 2002 Nov;62(2):175-84.

SAGE Publications Ltd. All rights reserved Waizy et al: "In vivo study of a biodegradable orthopedic screw (MgYREZr-alloy) in a rabbit for up to 12 months."

Journal of Biomaterials Applications. 03.01.2013.

<sup>&</sup>lt;sup>2</sup> Robinson DA, Griffith RW, Shechtman D, Evans RB, Conzemius MG: In vitro antibacterial properties of magnesium metal against Escherichia coli, Pseudomonas aeruginosa and Staphylococcus aureus, Acta Biomaterialia 6 (2010) 1869-1877.

<sup>&</sup>lt;sup>3</sup> Witte F, Hort N, Vogt C, Cohen S, Kainer KU, Willumeit R, Feyerabend F. Degradable biomaterials based on magnesium corrosion. Current Opinion in Solid State and Materials Science 12 (2020) 52, 73.

<sup>&</sup>lt;sup>4</sup> Sonnow L, Könneker S, Vogt PM, Wacker F, von Falck C: Biodegradable magnesium Herbert screw - image quality and artefacts with radiography, CT and MRI. BMC Medical Imaging (2017) 17:16.

#### **INTENDED USE**

The MAGNEZIX® CS is a bioabsorbable compression screw that is used to restore the bone continuity after fractures and osteotomies (osteosynthesis) as well as for treatment of pseudarthroses. Specifically, the MAGNEZIX® CS is intended to achieve anatomical retention of bone sections that have been joined together by surgical splinting following prior reduction until the bone has healed. The implant is designed for single use.

#### **INDICATIONS**

The indications for MAGNEZIX® CS implants are reconstruction procedures after fractures and malalignment in the human skeleton. The surgeon must determine the degree of injury and the scope of the required surgical procedure and then select the correct surgical procedure and the appropriate implant. This is particularly important when using bioabsorbable MAGNEZIX® implants. The surgeon is always responsible for the decision to use these implants.

Depending on the chosen size, the MAGNEZIX® CS can be used as a bone screw for children, adolescents or adults for adaptation-capable or exercise-capable fixation of bones and bony fragments.

#### MAGNEZIX® CS 2.0, 2.7, 3.2:

- intra- and extraarticular fractures of small bones and bony fragments
- arthrodeses, osteotomies and pseudarthroses of small bones and joints
- small bony ligament and tendon ruptures and similar indications in the same region of the body

#### MAGNEZIX® CS 2.0:

- phalangeal and metacarpal bones
- processus styloideus radii et ulnae
- > capitulum humeri and caput radii
- osteochondrosis dissecans and similar indications in the same region of the body

#### MAGNEZIX® CS 2.7, 3.2:

- > carpal, metacarpal, tarsal and metatarsal bones
- processus styloideus radii et ulnae
- capitulum humeri and caput radii
- epicondylus humeri
- → Hallux-valgus corrections and similar indications in the same region of the body

#### **CONTRAINDICATIONS**

MAGNEZIX\* implants are contraindicated (absolute contraindication) in specific clinical situations or they should only be planned and used after careful consideration (relative contraindication).

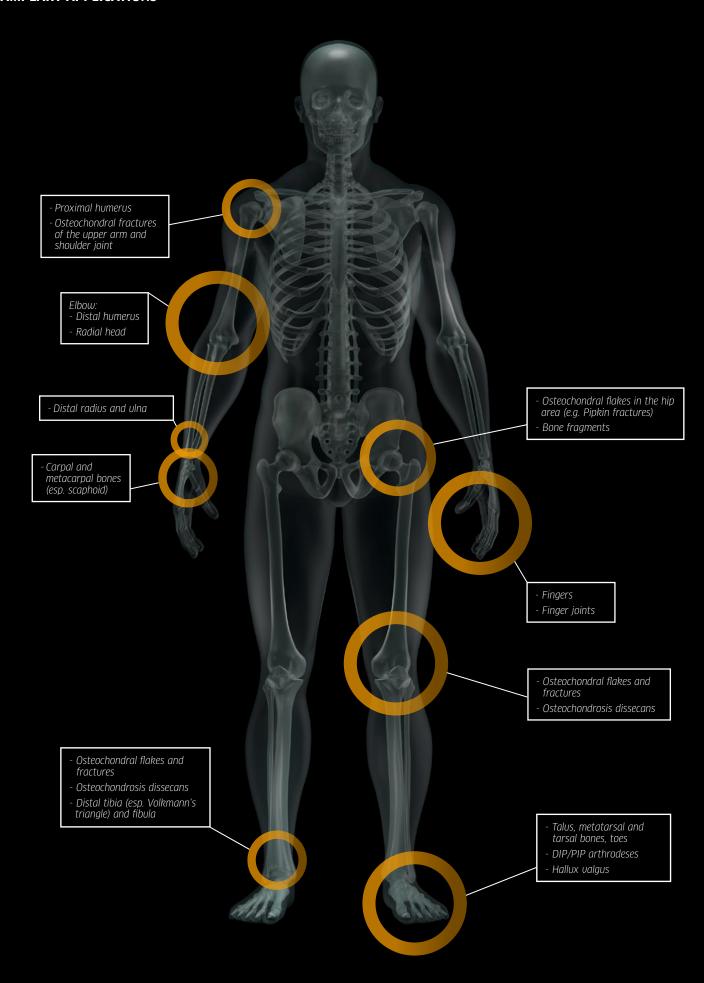
#### Absolute contraindications:

- insufficient or avascular bone mass for anchorage of the implant, except osteochondral fractures and dissecates
- > confirmation or suspected septic infectious surgical site
- application in the area of the epiphyseal plates
- load-bearing stable osteosynthesis
- arthrodeses of medium-sized and large joints
- applications on the spinal column
- radioscaphoid and/or midcarpal arthrosis

#### Relative contraindications:

- options for conservative treatment
- no options for adequate postoperative treatment (e.g. temporary strain relief)
- > uncooperative patient or patient with restricted intellectual capacity
- alcohol, nicotine and/or drug abuse
- → poor skin/soft tissue conditions
- osteoporosis
- acute sepsis
- epilepsy

#### **EXAMPLARY APPLICATIONS**



06.07

## ADVANTAGES AND FEATURES

#### **BIOABSORBABLE MAGNESIUM ALLOY**

Use of MAGNEZIX® implants makes any subsequent implant removal unnecessary, and moreover supports the osseous healing process. MAGNEZIX® is bioabsorbable and biocompatible.

#### Self-tapping screw tip

The self-tapping properties of the screw tip reduce the operation time and simplify the surgical application technique.

#### **Cannulated screw**

The screw is cannulated (hollow) to allow controlled positioning of the screw using the guide wire. This feature supports minimal invasive surgery.

#### Self-tapping head thread

The self-tapping design of the screw head simplifies insertion and countersinking of the screw head.

#### Different thread pitches

The threads of the head and the shaft have different thread pitches. This adapted design of the screw generates compressive forces and supports the intended inter-fragmentary compression.

#### **Self-holding screwdriver**

The drive of the screw head is of Tx (ISO 10664 – x) design.<sup>5</sup> The advantages of this ISO standardized technology are:

- Enlarged contact area
- Improved self-retaining mechanism
- Improved torque transmission

#### **HINTS**

## In isolated cases, temporary radiolucencies may be observed around the implant.

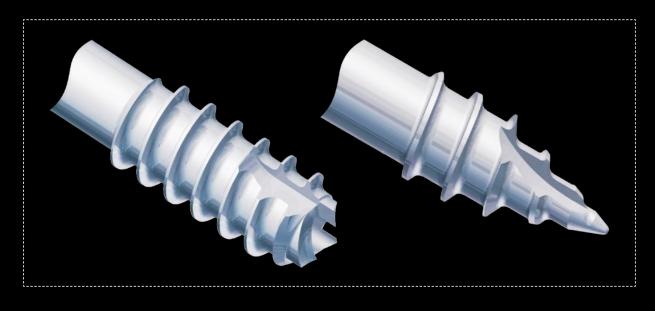
It is recommended to mention this phenomenon in the operative report and physician's letter, pointing out that, based on present knowledge, this does not have any relevant influence on the process of healing. This will inform the caregivers involved in the follow-up treatment of the special aspects of the radiological healing process.

Since MAGNEZIX® implants are degraded completely in the body in the course of time and are replaced by endogenous tissue, they do not have to be removed.

#### **WARNINGS**

When using other makes of implant at the same time, it is important to note that steel, titanium and cobalt-chromium alloys in the surgical site must not be in direct contact with a MAGNEZIX\* implant for an extended period (physical contact between implants).

Since the implants are intended for single use only, re-use of MAGNEZIX® implants constitutes gross negligence. It may lead to increased risk of infection and especially loss of implant stability. Re-sterilisation will have an unpredictable impact on the product.







08.09

# SURGICAL TECHNIQUE

#### **MAGNEZIX® CS 2.0 - STEP BY STEP**

Prior to implanting a MAGNEZIX® CS 2.0 screw it is necessary to ensure repositioning and temporary stabilization of the fracture or the osteotomy.

Although the MAGNEZIX® CS 2.0 screw has a self-cutting tip, a pilot hole must always be predrilled. The pilot hole also allows precise selection of the correct screw length.

#### Step 1: Drilling the pilot hole

Position the double drill guide through the soft tissue to the bone. Insert the drill bit through the double drill guide and into the bone, possibly monitoring with the image intensifier until it is at the required depth.

#### Important

If no pilot hole is drilled, the precise screw length cannot be correctly determined. Pre-drilling with an incorrect alignment can lead to malfunction of the screw.

#### Instruments used:

- ① 9020.033 Double Drill Guide, Ø 2.2/1.5 mm
- ② 9020.020 Drill Bit, Ø 1.5 mm

#### Step 2: Determination of screw length

The length of the screw is determined by means of the depth gauge to determine the depth of the pre-drilled pilot hole in the bone (18 mm in the figure).

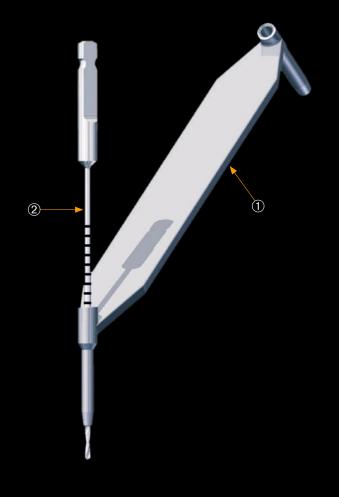
#### **Important**

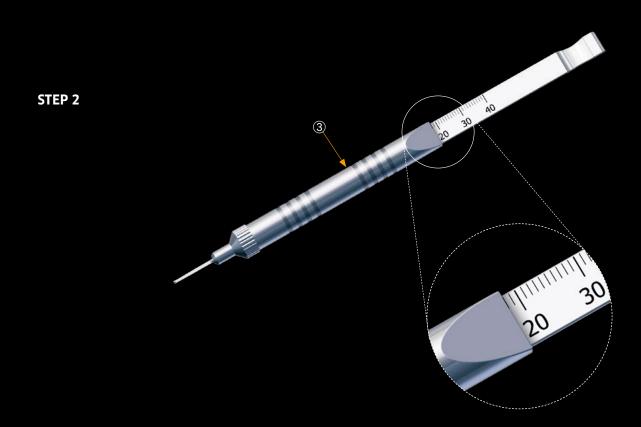
When selecting the length of the screw one has to ensure proper compression of the fracture gap.

#### Instruments used:

③ 9020.042 Depth Gauge for screws

STEP 1





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#### **Step 3: Countersinking**

In order to simplify insertion of the screw head the head-side of the intended implant position is now reamed using the countersink.

#### Important

If the screw is positioned perpendicular to the bone surface, countersinking to the first ring marking (RM 1) is required in order to achieve adequate countersinking of the screw head.

If the screw is positioned at an angle of 45° to the bone surface, countersinking to the second ring marking (RM 2) is required in order to achieve adequate countersinking of the screw head.

#### Instruments used:

- ① 9020.033 Double Drill Guide, Ø 2.2/1.5 mm
- ② 9020.021 Countersink Ø 2.2/1.5 mm, for quick coupling

#### Step 4: Inserting the screw

The MAGNEZIX® CS 2.0 of the previously determined length (step 2) is now screwed into place.

This should always be done without a power tool.

#### **Important**

Bear in mind that the shaft thread could pull out of the distal bone fragment if the induced compression forces are excessive when screwing-in the screw.

If the selected screw is too short the shaft thread might cross the fracture or osteotomy gap. If this situation results no compression will be generated. Therefore, to ensure the correct position of the threaded shaft it is recommended to check the position using an image intensifier.

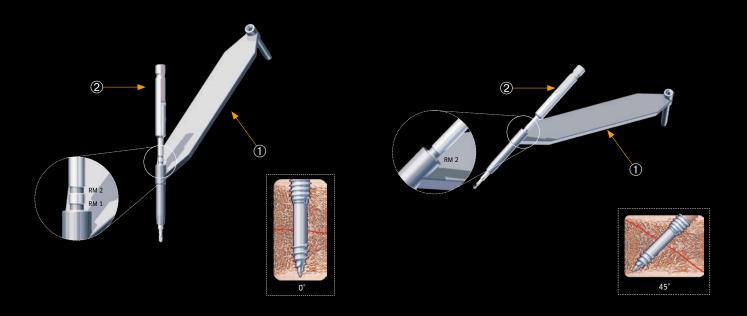
If one finds the thread crossing the fracture or osteotomy gap the screw must be removed and a longer screw has to be selected in order to generate compression. When doing this and in the case of a hard (dense) bone situation, it might be necessary to repeat the pre-drilling process as described in step 1 to further deepen the pre-drilled pilot hole for the selected screw with an adequate length.

#### Instruments used:

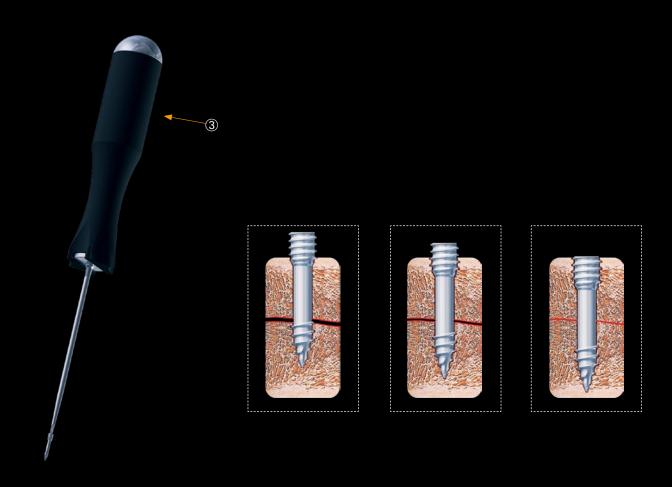
③ 6020.104 Screwdriver T4, One-Piece Handle Optional:

6020.204 Screwdriver T4, Multi-Part Handle

## STEP 3



## STEP 4



# SURGICAL TECHNIQUE

#### **MAGNEZIX® CS 2.7/3.2 - STEP BY STEP**

Prior to implanting a MAGNEZIX® CS 2.7/3.2 screw it is necessary to ensure repositioning and temporary stabilization of the fracture or the osteotomy.

#### Step 1: Positioning the guide wire

Position the guide wire through the double drill guide with fitted drill guide, if necessary monitor using image intensification, until it is in the required position.

#### **Important**

The guide wire is inserted a few millimeters longer than the later selected screw. This prevents the guide wire from being completely drilled off during the subsequent drilling process and removed with the cannulated drill

Avoid excess force when inserting the guide wire. Excess force will bend the guide wire and may hinder subsequent reaming or insertion of the screw.

#### Instruments used:

#### For MAGNEZIX® CS 2.7

- ① 9027.033 Double drill Guide, Ø 3.1/2.2 mm
- ② 9027.034 Drill Guide, Ø 2.2/1.1 mm
- 3 9027.040 Guide Wire Ø 1.0 mm, with trocar tip, length 100 mm or
- ③ 9027.041 Guide Wire Ø 1.0 mm, with threaded tip, length 100 mm

#### For MAGNEZIX® CS 3.2

- ① 9032.033 Double Drill Guide, Ø 3.5/2.5 mm
- ② 9032.034 Drill Guide, Ø 2.5/1.3 mm
- 3 9032.040 Guide Wire Ø 1.2 mm, with trocar tip, length 150 mm or
- $\ensuremath{\,^{\circ}}$  9032.041 Guide Wire Ø 1.2 mm, with threaded tip, length 150 mm

#### Step 2: Determination of screw length

The length of the screw is determined by sliding the measuring device over the guide wire to the bone. The end of the guide wire, visible in the scale of the measuring device, indicates the length of the screw to be used. (22 mm in the figure).

#### **Important**

From the measured length at least 2 mm to 4 mm must be substracted so that the guide wire is not removed during pre-drilling as described in step 1. The maximum length of the screw must therefore not exceed 20 mm. Only the original guide wires guarantee correct measurement.

#### Instruments used:

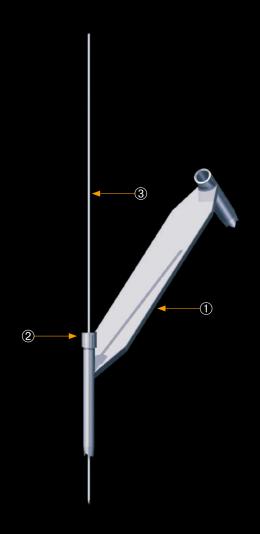
#### For MAGNEZIX® CS 2.7

④ 9027.042 Measuring Device for Guide Wires Ø 1.0 mm, Guide Wire length 100 mm

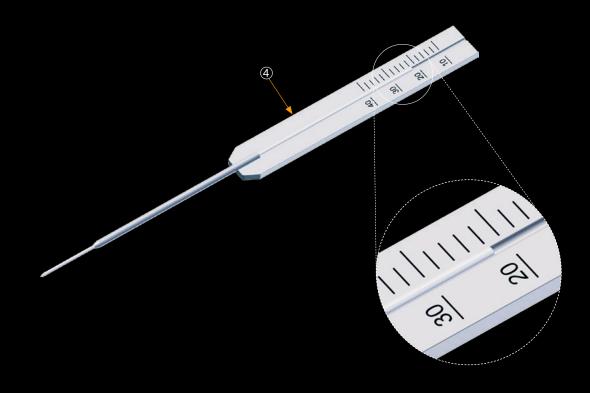
#### For MAGNEZIX® CS 3.2

④ 9032.042 Measuring Device for Guide Wires Ø 1.2 mm, Guide Wire length 150 mm

## STEP 1



## STEP 2



#### Step 3: Pre-drilling

For screws with self-tapping tips, pre-drilling over the desired screw lengths is mandatory. At this point, the cannulated drill bit is directed by the underlying guide wire. This facilitates the subsequent tightening of the screw and prevents the rotation of small bone fragments.

The drill bit calibration allows the drill depth reached to be read at the top end of the drill guide. The fine ring marks indicate 2 mm steps, the dominant ring marks indicate 10 mm drill steps.

#### **Important**

At least the last 2 mm to 4 mm up to the guide wire tip must not be drilled, so that the guide wire remains in the bone.

Slowly pull the drill bit out vertically from the double drill guide while slowly turning in a forward direction so as to leave the guide wire in position.

#### Instruments used:

#### For MAGNEZIX® CS 2.7

- ① 9027.033 Double Drill Guide, Ø 3.1/2.2 mm
- ② 9027.020 Drill Bit Ø 2.2/1.1 mm, cannulated, length 100/75 mm, for quick coupling

#### For MAGNEZIX® CS 3.2

- ① 9032.033 Double Drill Guide, Ø 3.5/2.5 mm
- ② 9032.020 Drill Bit Ø 2.5/1.3 mm, cannulated, length 160/135 mm, for quick coupling

#### Step 4: Countersinking

In order to simplify insertion of the screw head, the head-side of the intended implant position is now reamed using the countersink with the guide wire still in place.

#### Important

If the screw is positioned perpendicular to the bone surface, countersinking to the first ring marking (RM 1) is required in order to achieve adequate countersinking of the screw head.

If the screw is positioned at an angle of 45° to the bone surface, countersinking to the second ring marking (RM 2) is required in order to achieve adequate countersinking of the screw head.

The countersink is pulled vertically out of the drill guide while still slowly turning in the forward direction so as to leave the guide wire in position.

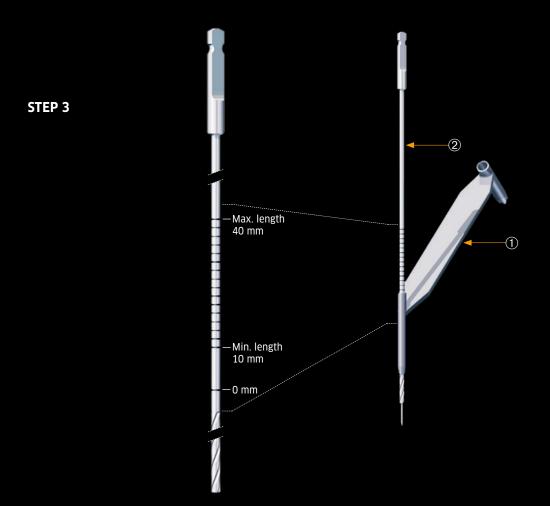
#### Instruments used:

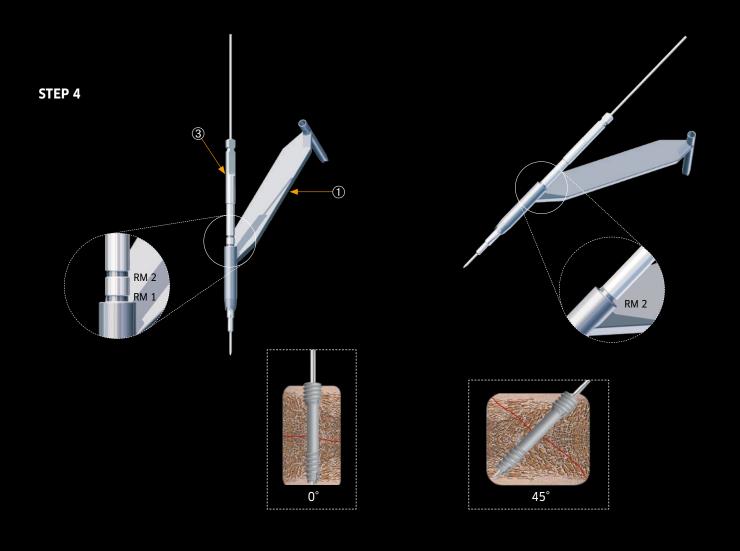
#### For MAGNEZIX® CS 2.7

- ① 9027.033 Double Drill Guide, Ø 3.1/2.2 mm
- ③ 9027.021 Countersink Ø 3.1/1.1 mm, cannulated, for quick coupling

#### For MAGNEZIX® CS 3.2

- ① 9032.033 Double Drill Guide, Ø 3.5/2.5 mm
- ③ 9032.021 Countersink Ø 3.5/1.3 mm, cannulated, for quick coupling





#### Step 5: Insertion of the screw

This is now followed by the tightening of the MAGNEZIX® CS over the underlying guide wire in the length previously determined in step 2.

#### **Important**

Take care to ensure that the guide wire was not damaged during steps 1 through 4. A damaged guide wire may result in the MAGNEZIX® CS not ending up fully screwed in. In this case the guide wire must be removed before insertion of the screw.

Bear in mind that the shaft thread could pull out of the distal bone fragment if the induced compression forces are excessive when screwing-in the screw.

If the selected screw is too short the shaft thread might cross the fracture or osteotomy gap. If this situation results no compression will be generated. Therefore, to ensure the correct position of the threaded shaft it is recommended to check the position using an image intensifier.

If one finds the thread crossing the fracture or osteotomy gap the screw must be removed and a longer screw has to be selected in order to generate compression. When doing this and in the case of a hard (dense) bone situation, it might be necessary to repeat the pre-drilling process as described in step 3 to further deepen the pre-drilled pilot hole for the selected screw with an adequate length.

When the screw is in its final position the guide wire is removed.

#### Instruments used:

#### For MAGNEZIX® CS 2.7

① 6027.108 Screwdriver T7, One-Piece Handle,
Ø 1.1 mm cannulated
9027.033 Double Drill Guide, Ø 3.1/2.2 mm
Optional:
6027.208 Screwdriver T7, Multi-Part Handle,
Ø 1.1 mm cannulated

#### For MAGNEZIX® CS 3.2

① 6032.108 Screwdriver T8, One-Piece Handle,
Ø 1.3 mm cannulated
9032.033 Double Drill Guide, Ø 3.5/2.5 mm
Optional:
6032.208 Screwdriver T8, Multi-Part Handle,
Ø 1.3 mm cannulated



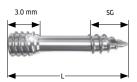


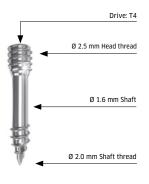




## IMPLANTS\* MAGNEZIX® CS

#### **MAGNEZIX® CS 2.0**





Threaded shaft

length (mm)

4

4

5

5

5

6

6

Screw length

(mm)

8

10

12

14

16

18

20

22

24

Art. No.

1020.008

1020.010

1020.012

1020.014

1020.016

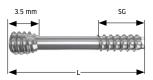
1020.018

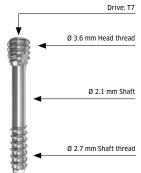
1020.020

1020.022

1020.024

#### **MAGNEZIX® CS 2.7**







Art. No.	Threaded shaft length (mm)	Screw length (mm)
1027.010	4	10
1027.012	5	12
1027.014	5	14
1027.016	7	16
1027.018	7	18
1027.020	7	20
1027.022	7	22
1027.024	7	24

26 28

30

32

34

1027.026

1027.028

1027.030

1027.032

1027.034

7

7

7

9

	Drive: T8
<b>8</b>	Ø 4.0 mm Head thread
	Ø 2.4 mm Shaft
熟	
<b>■</b>	Ø 3.2 mm Shaft thread

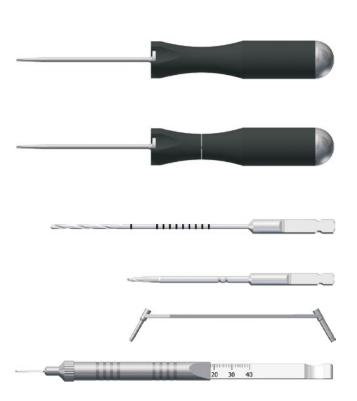
**MAGNEZIX® CS 3.2** 

3.5 mm

Art. No.	Threaded shaft length (mm)	Screw length (mm)
1032.010	4	10
1032.012	5	12
1032.014	5	14
1032.016	7	16
1032.018	7	18
1032.020	7	20
1032.022	7	22
1032.024	7	24
1032.026	7	26
1032.028	7	28
1032.030	7	30
1032.032	9	32
1032.034	9	34
1032.036	9	36
1032.038	9	38
1032.040	9	40

<sup>\*</sup>All implants are individually sterile packaged. It is not possible to re-sterilize the implants.

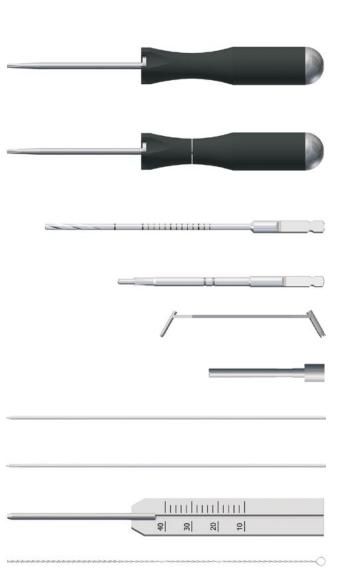
# INSTRUMENTS\*\* MAGNEZIX® CS 2.0



Art. No.	Description
6020.104	Screwdriver T4, One-Piece Handle, consisting of: 9099.001 One-Piece Handle for Screwdriver
	9020.015 Screwdriver Blade T4
6020.204	Screwdriver T4, Multi-Part Handle, consisting of:
	9099.002 Multi-Part Handle for Screwdriver 9020.015 Screwdriver Blade T4
9020.020	Drill Bit Ø 1.5 mm, length 88/63 mm, for quick coupling
9020.021	Countersink Ø 2.2/1.5 mm, for quick coupling
9020.033	Double Drill Guide, Ø 2.2/1.5 mm
9020.042	Measuring Device for Screws
Not shown:	
8020.001	Sterilization Tray for MAGNEZIX® CS Ø 2.0 mm, without contents
8020.002	Lid for Sterilization Tray for MAGNEZIX® CS Ø 2.0 mm

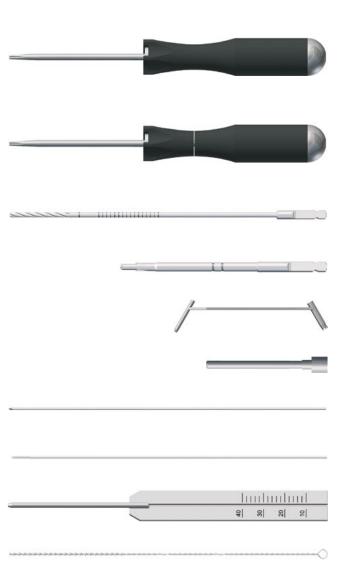
<sup>\*\*</sup> The figures are not to scale. Instruments of the latest generation can have additional color coding.

# INSTRUMENTS\* MAGNEZIX® CS 2.7



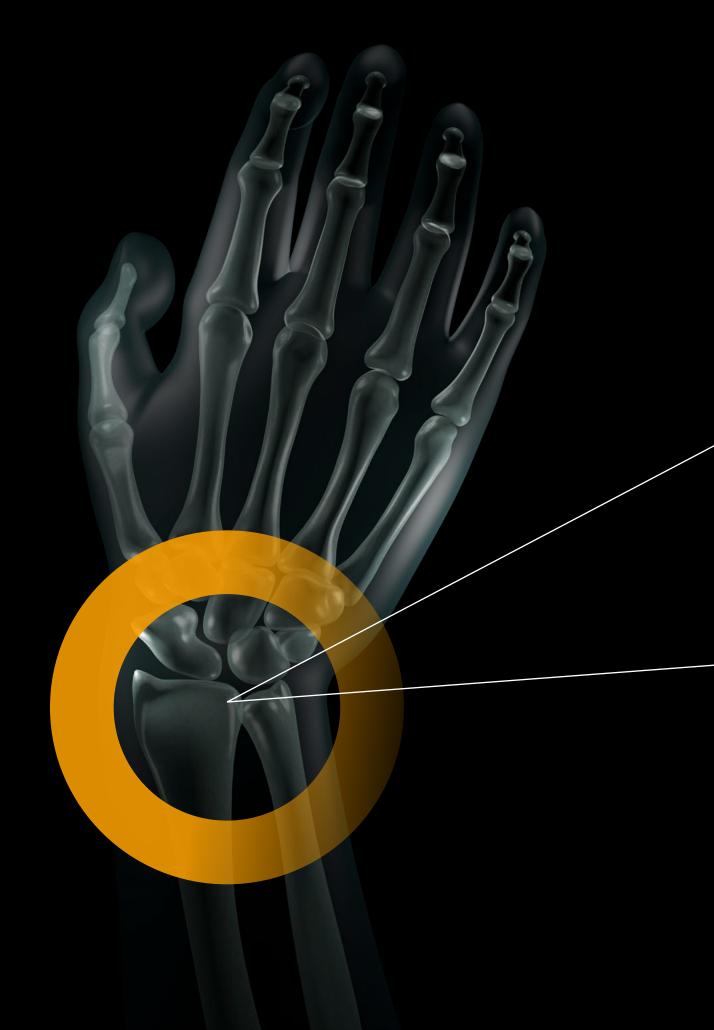
Screwdriver T7, One-Piece Handle Ø 1.1 mm cannulated, consisting of: 9099.001 One-Piece Handle for Screwdriver 9027.015 Screwdriver Blade T7  6027.207 Screwdriver T7, Multi-Part Handle Ø 1.1 mm cannulated, consisting of: 9099.002 Multi-Part Handle for Screwdriver 9027.015 Screwdriver Blade T7  9027.020 Drill Bit Ø 2.2/1.1 mm, cannulated, length 100/75 mm, for quick coupling  9027.021 Countersink Ø 3.1/1.1 mm, cannulated, for quick coupling  9027.033 Double Drill Guide, Ø 3.1/2.2 mm  9027.034 Drill Guide, Ø 2.2/1.1 mm  9027.040 Guide Wire Ø 1.0 mm, with trocar tip, length 100 mm  9027.041 Guide Wire Ø 1.0 mm, with threaded tip, length 100 mm  9027.042 Measuring Device, for Guide Wire Ø 1.0 mm, Guide Wire length 100 mm  9027.050 Cleaning Stylet Ø 1.05 mm, for Ø 1.1 mm cannulated instruments	
Ø 1.1 mm cannulated, consisting of: 9099.002 Multi-Part Handle for Screwdriver 9027.015 Screwdriver Blade T7  9027.020 Drill Bit Ø 2.2/1.1 mm, cannulated, length 100/75 mm, for quick coupling  9027.021 Countersink Ø 3.1/1.1 mm, cannulated, for quick coupling  9027.033 Double Drill Guide, Ø 3.1/2.2 mm  9027.034 Drill Guide, Ø 2.2/1.1 mm  9027.040 Guide Wire Ø 1.0 mm, with trocar tip, length 100 mm  9027.041 Guide Wire Ø 1.0 mm, with threaded tip, length 100 mm  9027.042 Measuring Device, for Guide Wire Ø 1.0 mm, Guide Wire length 100 mm  9027.050 Cleaning Stylet Ø 1.05 mm,	
length 100/75 mm, for quick coupling  9027.021 Countersink Ø 3.1/1.1 mm, cannulated, for quick coupling  9027.033 Double Drill Guide, Ø 3.1/2.2 mm  9027.034 Drill Guide, Ø 2.2/1.1 mm  9027.040 Guide Wire Ø 1.0 mm, with trocar tip, length 100 mm  9027.041 Guide Wire Ø 1.0 mm, with threaded tip, length 100 mm  9027.042 Measuring Device, for Guide Wire Ø 1.0 mm, Guide Wire length 100 mm  9027.050 Cleaning Stylet Ø 1.05 mm,	
for quick coupling  9027.033 Double Drill Guide, Ø 3.1/2.2 mm  9027.034 Drill Guide, Ø 2.2/1.1 mm  9027.040 Guide Wire Ø 1.0 mm,     with trocar tip, length 100 mm  9027.041 Guide Wire Ø 1.0 mm,     with threaded tip, length 100 mm  9027.042 Measuring Device, for Guide Wire     Ø 1.0 mm, Guide Wire length 100 mm  9027.050 Cleaning Stylet Ø 1.05 mm,	
9027.034 Drill Guide, Ø 2.2/1.1 mm  9027.040 Guide Wire Ø 1.0 mm, with trocar tip, length 100 mm  9027.041 Guide Wire Ø 1.0 mm, with threaded tip, length 100 mm  9027.042 Measuring Device, for Guide Wire Ø 1.0 mm, Guide Wire length 100 mm  9027.050 Cleaning Stylet Ø 1.05 mm,	
9027.040 Guide Wire Ø 1.0 mm, with trocar tip, length 100 mm  9027.041 Guide Wire Ø 1.0 mm, with threaded tip, length 100 mm  9027.042 Measuring Device, for Guide Wire Ø 1.0 mm, Guide Wire length 100 mm  9027.050 Cleaning Stylet Ø 1.05 mm,	
with trocar tip, length 100 mm  9027.041 Guide Wire Ø 1.0 mm, with threaded tip, length 100 mm  9027.042 Measuring Device, for Guide Wire Ø 1.0 mm, Guide Wire length 100 mm  9027.050 Cleaning Stylet Ø 1.05 mm,	
with threaded tip, length 100 mm  9027.042 Measuring Device, for Guide Wire Ø 1.0 mm, Guide Wire length 100 mm  9027.050 Cleaning Stylet Ø 1.05 mm,	
Ø 1.0 mm, Guide Wire length 100 mm 9027.050 Cleaning Stylet Ø 1.05 mm,	
,	
ioi & 1.1 mm cambiated instruments	
Not shown:	
8027.001 Sterilization Tray for MAGNEZIX® CS Ø 2.7 mm, without contents	
8027.002 Lid for Sterilization Tray, for MAGNEZIX* CS Ø 2.7 mm	

# INSTRUMENTS\* MAGNEZIX® CS 3.2

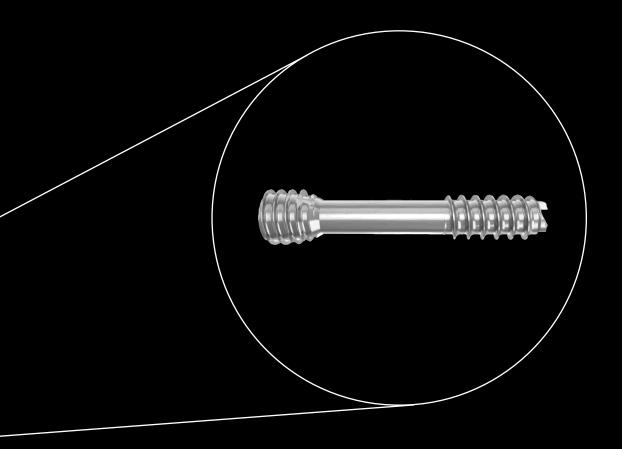


Art. No.	Description
6032.108	Screwdriver T8, One-Piece Handle Ø 1.3 mm cannulated, consisting of: 9099.001 One-Piece Handle for Screwdriver 9032.015 Screwdriver Blade T8
6032.208	Screwdriver T8, Multi-Part Handle Ø 1.3 mm cannulated, consisting of: 9099.002 Multi-Part Handle for Screwdriver 9032.015 Screwdriver Blade T8
9032.020	Drill Bit Ø 2.5/1.3 mm, cannulated, length 160/135 mm, for quick coupling
9032.021	Countersink Ø 3.5/1.3 mm, cannulated, for quick coupling
9032.033	Double Drill Guide, Ø 3.5/2.5 mm
9032.034	Drill Guide, Ø 2.5/1.3 mm,
9032.040	Guide Wire Ø 1.2 mm, with trocar tip, length 150 mm,
9032.041	Guide Wire Ø 1.2 mm, with threaded tip, length 150 mm,
9032.042	Measuring Device, for Guide Wire Ø 1.2 mm, Guide Wire length 150 mm
9032.050	Cleaning Stylet Ø 1.25 mm, for Ø 1.3 mm cannulated instruments
Not shown:	
8032.001	Sterilization Tray for MAGNEZIX® CS Ø 3.2 mm, without contents
8032.002	Lid for Sterilization Tray, for MAGNEZIX* CS Ø 3.2 mm

<sup>\*</sup> The figures are not to scale. Instruments of the latest generation can have additional color coding.



# METALLIC AND TRANSFORMABLE. A MEDICAL SENSATION. MAGNEZIX®





















Presented by:



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Implants are manufactured in Germany in cooperation with Königsee Implantate GmbH.

C€ 0197