

Innovative Treatment Solutions

**ZYGOMATIC** Implants Product Catalogue





Southern Implants® is a leading provider of unique and innovative dental implant products with a focus on top-end professional users who want more choices. Southern's expertise in research, development and manufacturing of dental implants allows us to provide Innovative Treatment Solutions that will reduce treatment times and improve patient outcomes.

Striving for excellence and meeting customer needs, has led to our wide product range characterised by Unique and Innovative products which include:

- Multiple interfaces, to suit customer preference.
- INVERTA® implant, featuring a Body-Shift™ design, engineered for primary stability and suitable for immediate loading.
- Co-Axis®, Subcrestal Angle Correction® implants, available in angulations of 12°, 24° and 36° and various internal and external connections.
- MAX implant, specifically designed for immediate molar tooth replacement.
- The ZYGAN®, ZYGEX and ZYGIN implants for severely resorbed maxilla and craniofacial reconstruction.

Our product portfolio is in synchronised evolution with protocol improvements and technological advances.

 $My \, since re\, thanks\, to\, all\, special ists, dentists\, and\, technicians\, who\, put\, their\, trust\, in\, our\, company.$ 

**Graham Blackbeard**Managing Director, Southern Implants

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For more information scan the below



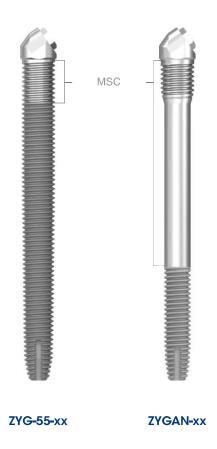
or visit

SOUTHERNIMPLANTS.COM

- images are for illustration purposes only and do not necessarily accurately represent the product.
- all dimensions in this catalogue are in mm, unless otherwise specified.
- not all products are cleared for sale in all countries.

## ZYGOMATIC ZYGAN®

#### **ZYGOMATIC** and **ZYGAN®** Implants





(where xx is implant length)

- implant dimensions and information page 22.
- all ZYG and ZYGAN® implants are packaged with a Bone Mill fixture mount. For more information refer to CAT-1219.

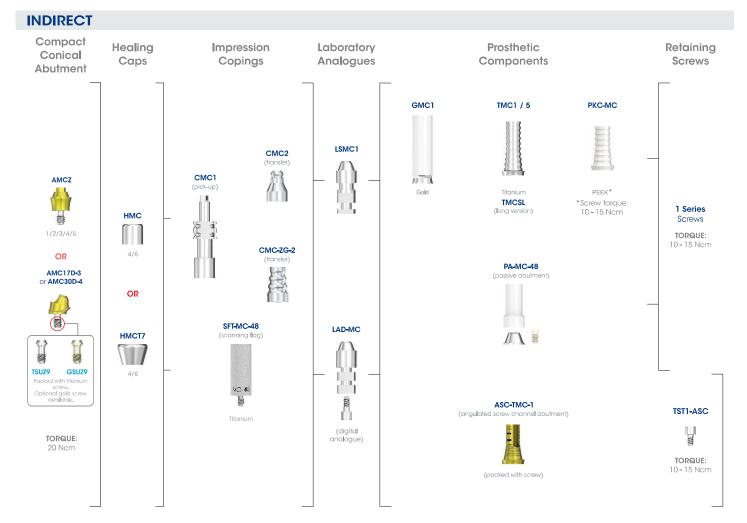
#### Implants are premounted and available in lengths of: IMPLANT LENGTH CODES (in mm)

ZYG-55-	35N / 37.5N / 40N / 42.5N / 45N / 47.5N / 50N / 52.5N / 55N / 60N
ZYGAN-	30 / 32.5 / 35 / 37.5 / 40 / 42.5 / 45 / 47.5 / 50 / 52.5 / 55 / 57.5 / 60

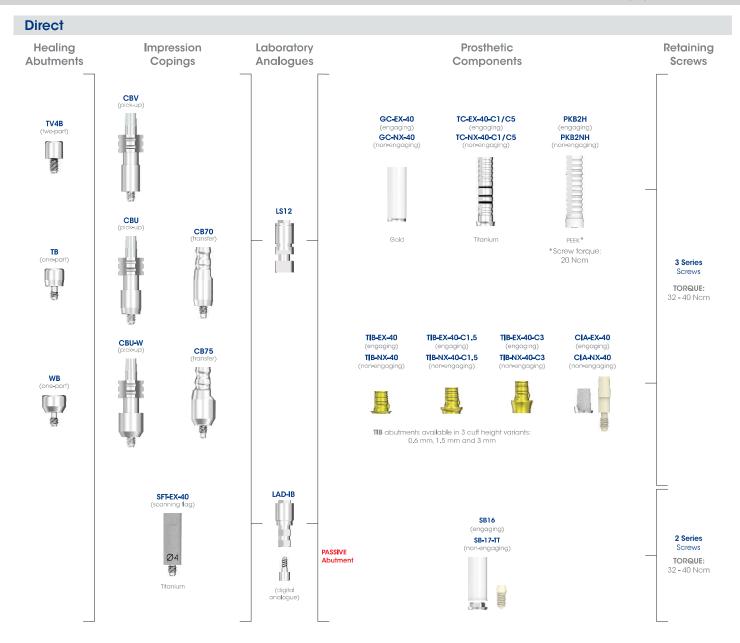
#### **Surgical Components**

ITEM CODE

#### **Healing Abutments Cover Screw** SCU2 TB WB 2/3/4/5/6/8 2/3/4/5/6/8 lengths lengths

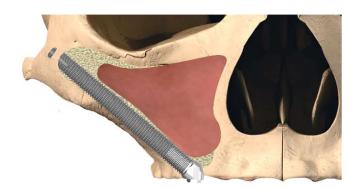


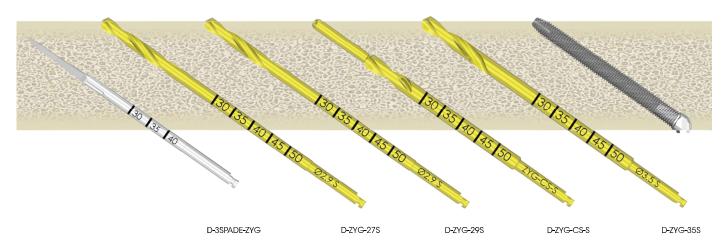
- for optimal coronal hard and soft tissue health, it is strongly recommended that all Southern Zygomatic implants are restored with compact conical abutments (indirect route).
- · the direct route is only recommended if there are restorative considerations that preclude the use of compact conical abutments.

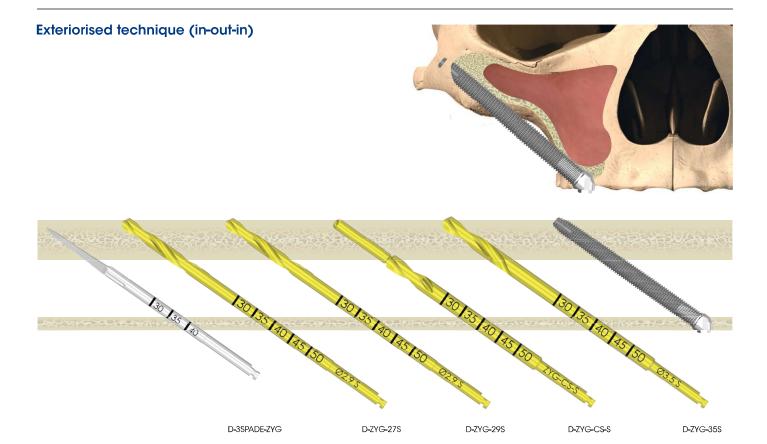


#### Sinus-slot or in-the-wall technique

(illustrations are for 42.5 mm Zygomatic implants)



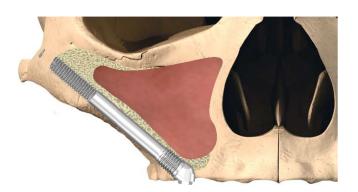


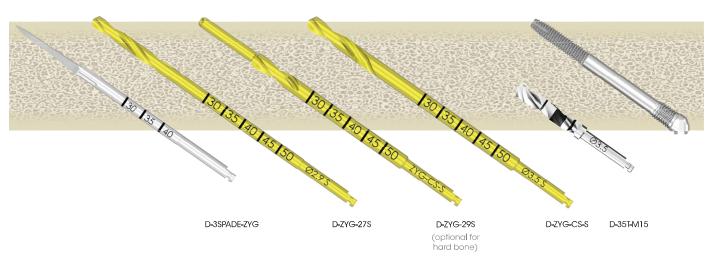


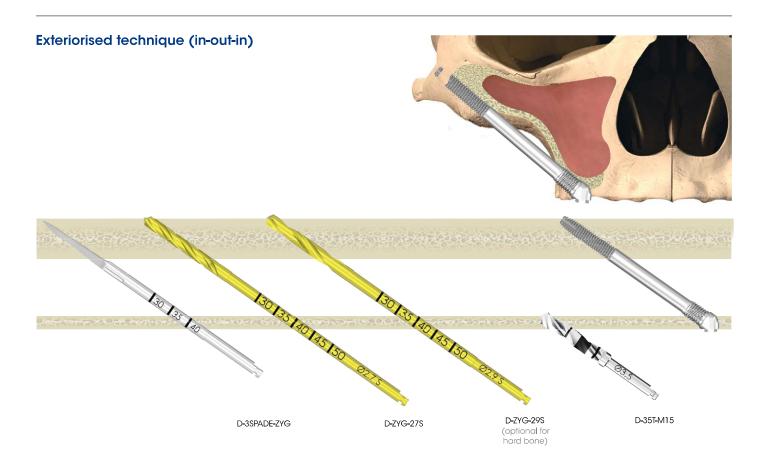
**NOTE:** site preparation sequence recommended by Southern Implants does not replace the judgement and experience of the surgeon.

#### Sinus-slot or in-the-wall technique

(illustrations are for 42.5 mm ZYGAN® implants)







NOTE: site preparation sequence recommended by Southern Implants does not replace the judgement and experience of the surgeon.

## **ZYGIN**

### **ZYGIN Implants**



(where xx is implant length)

#### Implants are premounted and available in lengths of:

NOTE: implant dimensions and information - page 22.

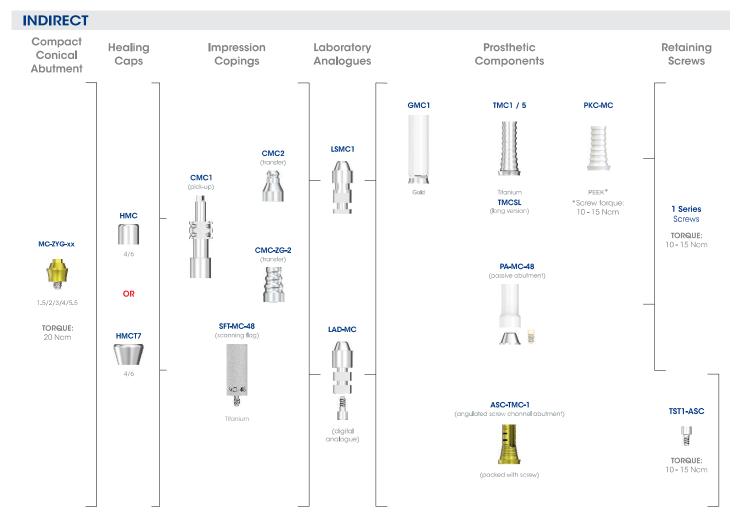
ITEM CODE	IMPLANT LENGTH CODES (in mm)
ZYGIN-	30 / 32.5 / 35 / 37.5 / 40 / 42.5 / 45 / 47.5 / 50 / 52.5 / 55 / 57.5 / 60

#### **Surgical Components**

Cover Screw Healing Abutments

CS-ZYG N/A

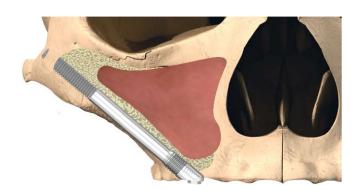
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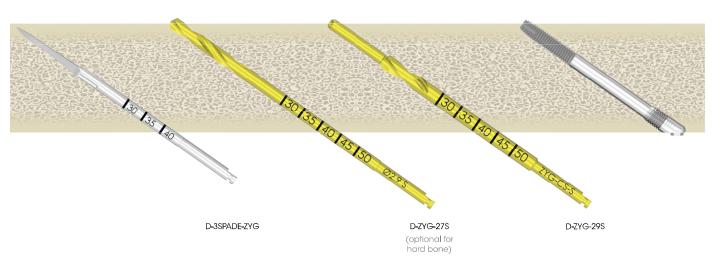


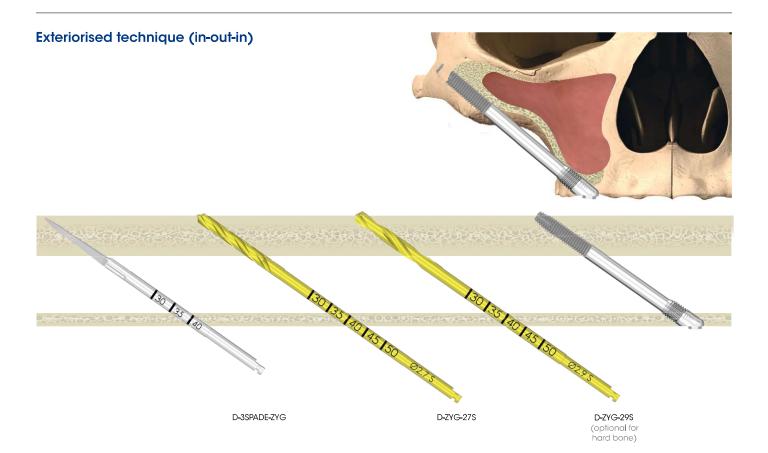
- for optimal coronal hard and soft tissue health, it is strongly recommended that all Southern Zygomatic implants are restored with compact conical abutments (indirect route).
- · the direct route is only recommended if there are restorative considerations that preclude the use of compact conical abutments.

#### Sinus-slot or in-the-wall technique

(illustrations are for 42.5 mm ZYGIN implants)







NOTE: site preparation sequence recommended by Southern Implants does not replace the judgement and experience of the surgeon.

# ONCOLOGY ZYGEX

#### **ONCOLOGY and ZYGEX Implants**





(where xx is implant length)

#### NOTE:

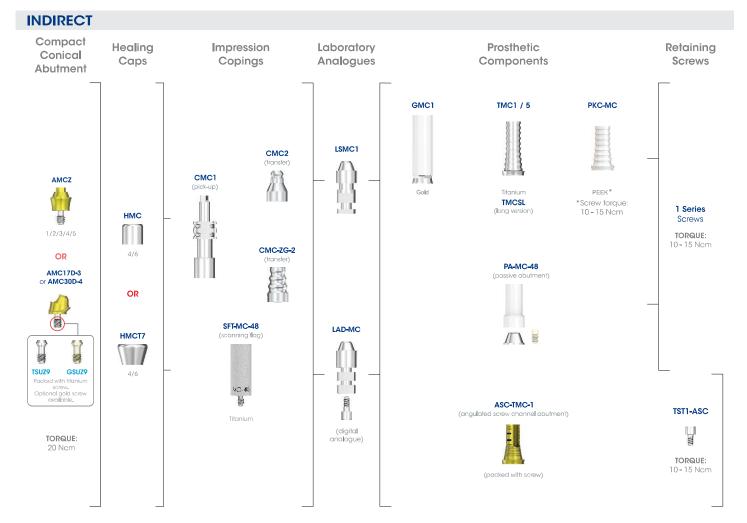
- implant dimensions and information page 22.
- all ZYGEX implants are packaged with a Bone Mill fixture mount. For more information refer to CAT-1219.

#### Implants are premounted and available in lengths of:

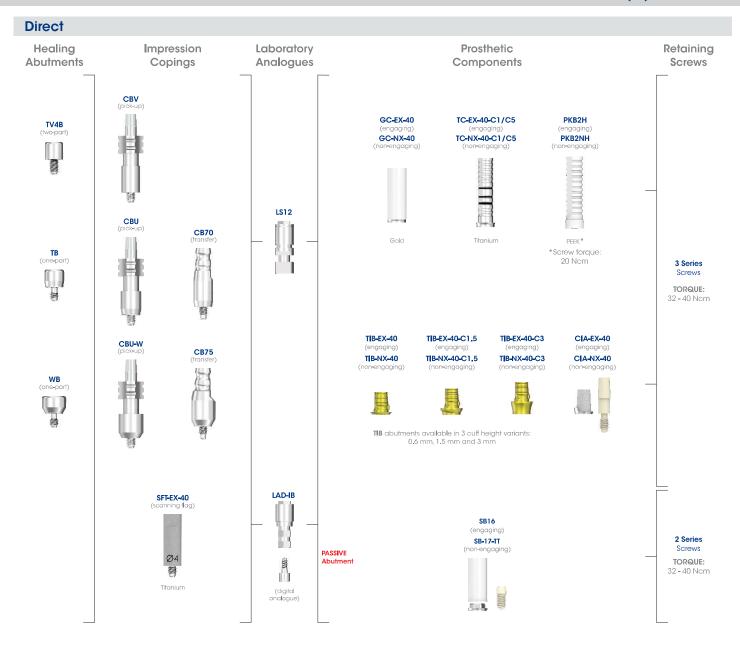
ITEM CODE	IMPLANT LENGTH CODES (in mm)
ONC-55-	27.5N / 32.5N / 37.5N / 42.5N / 47.5N
ZYGEX-	30 / 32.5 / 35 / 37.5 / 40 / 42.5 / 45 / 47.5 / 50 / 52.5 / 55 / 57.5 / 60

#### **Surgical Components**

# Cover Screw Healing Abutments SCU2 TB WB Ø4.5 Ø5.5 2/3/4/5/6/8 lengths 2/3/4/5/6/8 lengths

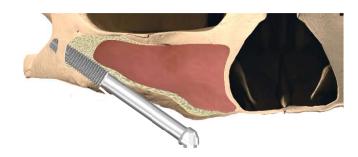


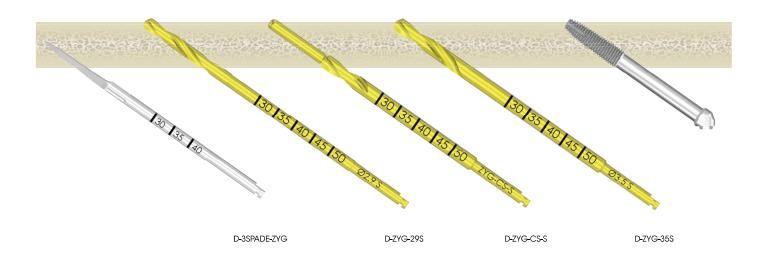
- for optimal coronal hard and soft tissue health, it is strongly recommended that all Southern Zygomatic implants are restored with compact conical abutments (indirect route).
- the direct route is only recommended if there are restorative considerations that preclude the use of compact conical abutments.



#### Maxillectomy

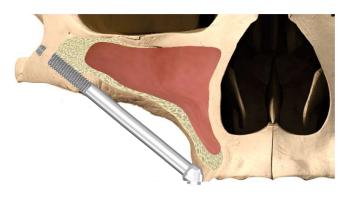
(illustration is for 42.5 mm ONC implant)



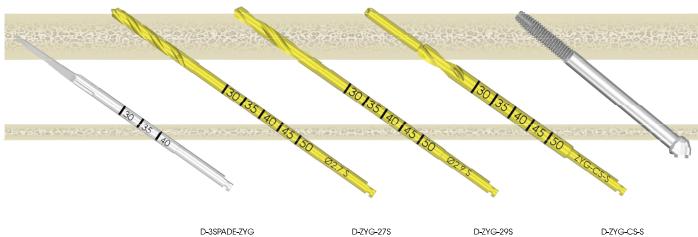


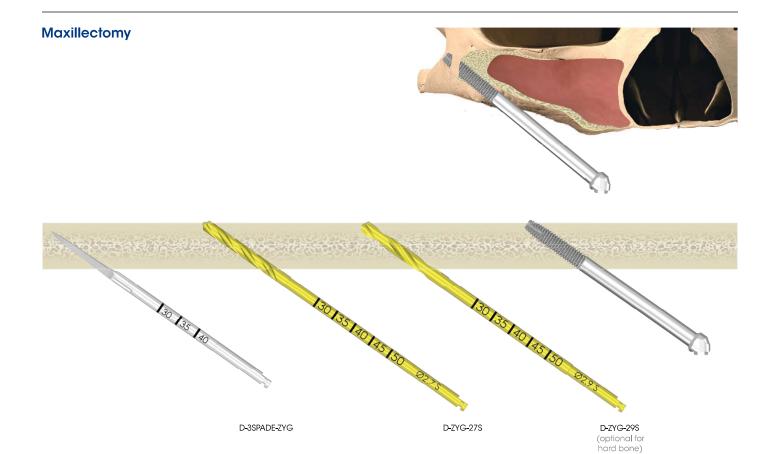
#### **Exteriorised technique**

(illustrations are for 42.5 mm ZYGEX implants)



(optional for hard bone)





**NOTE:** site preparation sequence recommended by Southern Implants does not replace the judgement and experience of the surgeon.

#### **Zygomatic Guided Surgery Drills**

The Zygomatic implant range may be placed utilising the guided surgery drills (D-ZYG-24ST-GSS/M/L and D-ZYG-27ST-GSM/L), which initiate the osteotomy and create a **Ø2.4** mm or **Ø2.7** mm site at the same time.

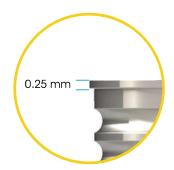
Clinicians are able to either place the implant following the Ø2.4 mm or Ø2.7 mm drill (depending on the bone density) or can continue prepping the osteotomy site as per the recommended drilling protocol.

**NOTE:** the drill is intended for angulation guidance and has no physical stop for depth control. Depth control is still determined by the patient's anatomy and the judgement and experience of the surgeon.



I-GSZ-4128-L8

Ø4.1 mm x 8 mm long Guided Surgery Sleeve - Zygomatic

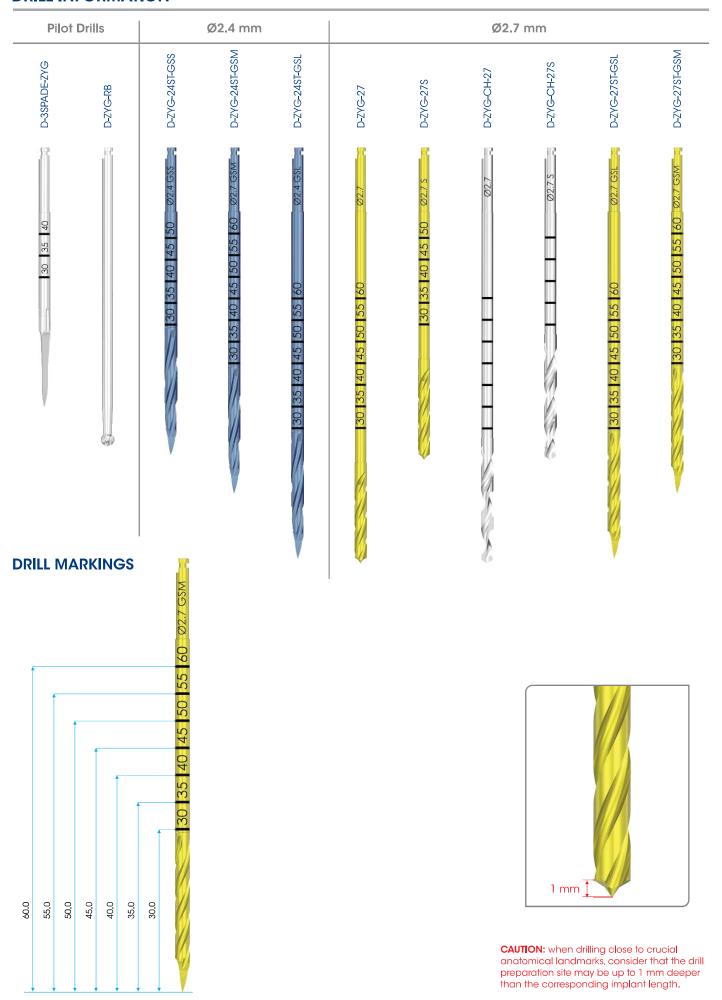


- the lip on the guide sleeve, adds 0.25 mm, this does not need to be taken into consideration as most Southern Implants drills extend 1 mm longer.
- always plan for at least 2 mm from nerves / anatomical structures.

	Ø2.4 mm Zygomatio pade Dril	•	•	Ø2.7 Zygor Spade	
D-ZYG-24ST-GSS	D-ZYG-24ST-GSM	D-ZYG-24ST-GSL		D-ZYG-27ST-GSM	D-ZYG-27ST-GSL
30 35 40 45 50 Ø2.4 GSS	30 35 40 45 50 55 60 Ø2.7 GSM	30 35 40 45 50 55 60 02.4 GSL		30 35 40 45 50 55 60 Ø2.7 GSM	30 35 40 45 50 55 60 Ø27 GSL
(short)	(medium)	(long)	(me	edium)	(long)



#### **DRILL INFORMATION**



#### **DRILL INFORMATION**

	Ø2.9	mm			Ø3.5 mm		Coun (Ø3.	Side Cutting	
D-ZYG-29	D-ZYG-29S	D-ZYG-CH-29	D-ZYG-CH-29S	D-ZYG-35	D-ZYG-35S	D-35T-M15	D-ZYG-CS	D-ZYG-CS-S	CH-D-CM
30 35 40 45 50 55 60	30 35 40 45 50 02.9 8	02.9	02.95	30 35 40 45 50 55 60	30 35 40 45 50 03.55		30 35 40 45 50 55 60 TYG-CS	99.76	Ø2,46

#### TORQUE TABLE FOR SOUTHERN SCREWS

#### 1 Series screws (M1.4)









BSH1\*

#### Slotted



TSS<sub>1</sub>



GSS1

BSS1\*

#### Unigrip







10 - 15 Ncm

TORQUE:

#### 2 Series screws (M2)







GSQZ2













GSUZ2

32 - 40 Ncm Head diameter: 2.70 mm

#### 3 Series screws (M2)

1.22 Hex

















TORQUE: 32 - 40 Ncm Head diameter: 2.40 mm

**NOTE:** screw TORQUE with PEEK Prosthetics: < Ø4.0 mm implant interfaces: 15 Ncm ≥ Ø4.0 mm implant interfaces: 20 Ncm

#### **ASC 1 Series screw**



**TORQUE:** 10 - 15 Ncm **Head diameter** 2.20 mm

TST1-ASC

#### Screw product codes

Southern screws are manufactured from different materials.

This is indicated with the first letter of the product code:

**T** = Titanium **G** = Gold **B** = Brass

#### **Digital Laboratory Analogue screw**

#### 1.22 Hex



LAD-S

TORQUE: Finger tighten Head diameter: 2,40 mm

#### NOTE:

- due to design revisions and changes, screw tips may be flat or rounded.
- always ensure that the correct screw is used for the relevant implant and component.
- blackened and for laboratory use only.
- universal drivers are compatible with both 1.22 and 1.27 Hex screws:
  - I-HD22U-S/M/L
  - I-HHD-22U-S/M/L
  - I-WI-22U-S-/M/L

Screw supplied with all Digital Analogues.

#### **Screw Head Connections**



Hex





Unigrip







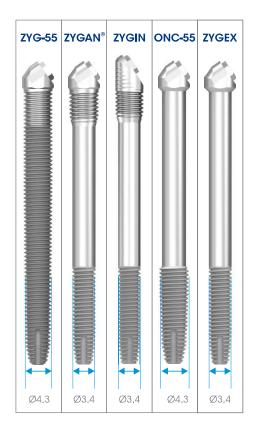
**ASC** 

#### **Zygomatic Protocol Synopsis**

Southern Implants® is aware of a number of different protocols currently used by various centres around the world. The classic technique for zygomatic placement involved cutting a sinus window and placing the implant through the sinus. The sinus-slot technique and exteriorised technique have since been developed, with the implant placed through the sinus wall and outside the sinus wall respectively. It has been suggested that the choice of technique should consider the ridge crest concavity and sinus anatomy (Chrcanovic et al. 2013). The ZAGA approach classifies the anatomy into different types to determine the appropriate technique for Zygomatic implant placement (Aparicio et al. 2014).

While the chosen placement technique and implant choice is up to the practitioner's preference, this section illustrates the best Southern Implants Zygomatic implant for each technique using the ZAGA approach.

Anatomy	ZAGA classification	Implant path	Alternate placement technique	ZYG-55	ZYGAN®	ZYGIN	ZYGEX	ONC-55
Anterior maxillary wall is very flat	ZAGA 0	Intra-sinus	Classic	✓	<b>✓</b>	<b>✓</b>		
Anterior maxillary wall is slightly concave	ZAGA 1	Intra-extra path	Classic/ sinus-slot	✓	✓	✓		
Anterior maxillary wall is concave	ZAGA 2	Extra-intra path	Sinus-slot/ exteriorized	<b>✓</b>	✓	✓		
Anterior maxillary wall is very concave	ZAGA 3	Extra-sinus	Exteriorized		✓	✓	✓	✓
Maxilla and alveolar bone show extreme atrophy or maxilla has been resected	ZAGA 4	Extra- maxillary	Extra- alveolar				<b>✓</b>	✓



The quad protocol is placing two implants in one zygoma. The ZYGAN®, ZYGIN and ZYGEX are best suited to the quad protocol due to their narrower apex.

The MSC Zygomatic implant (ZYG-55, ZYGIN and ZYGAN®) also captures the advantage of a specific roughness machined coronal surface area that covers the 6 mm crestal portion of the implant. Indicated for patients with higher risk of coronal bone loss (smokers, history of periodontitis and cardiovascular disease).

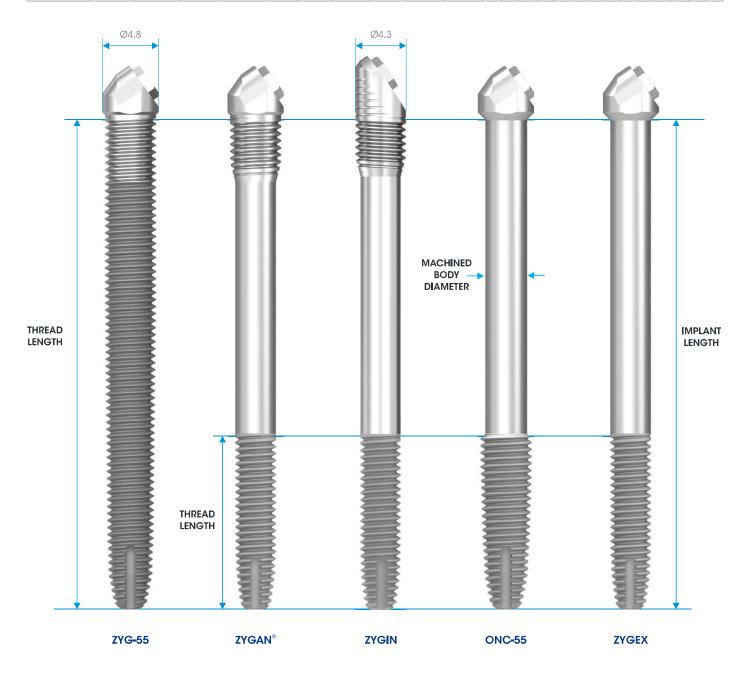
The new ZYG Bone Mill Fixture Mount aims to provide a multipurpose function where it performs as both the fixture mount required for insertion as well as a bone mill to prepare the alveolar bone for abutment seating. The 'Bone Mill Fixture Mount' is designed with cutting edges which engage the alveolar bone at time of insertion. For more information regarding the Bone Mill Fixture Mount, refer to CAT-1219.

The new ZYGIN implant is equipped with a narrower Fixture Mount and implant head. Indicated for patients with severe atrophy of the alveolar ridge.

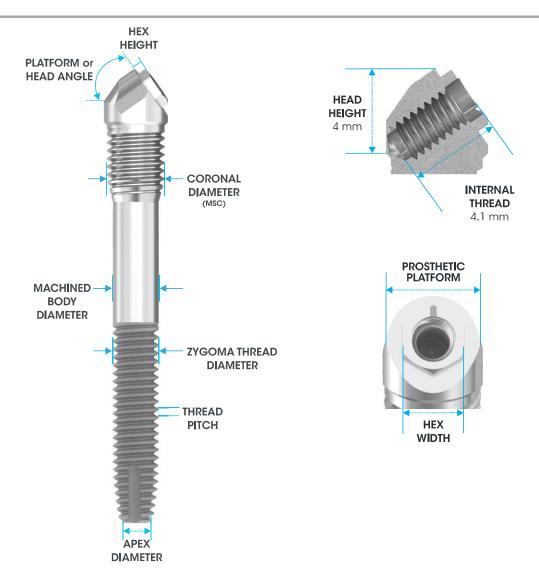
#### References:

- Chrcanovic BR, Abreu MHNG. Survival and complications of zygomatic implants: a systematic review. Oral Maxillofac Surg. 2013 Jun;17(2):81–93.
- Aparicio C, Manresa C, Francisco K, Aparicio A, Nunes J, Claros P, et al. Zygomatic implants placed using the zygomatic anatomy-guided approach versus the classical technique: a proposed system to report rhinosinusitis diagnosis. Clin Implant Dent Relat Res. 2014 Oct;16(5):627–42.

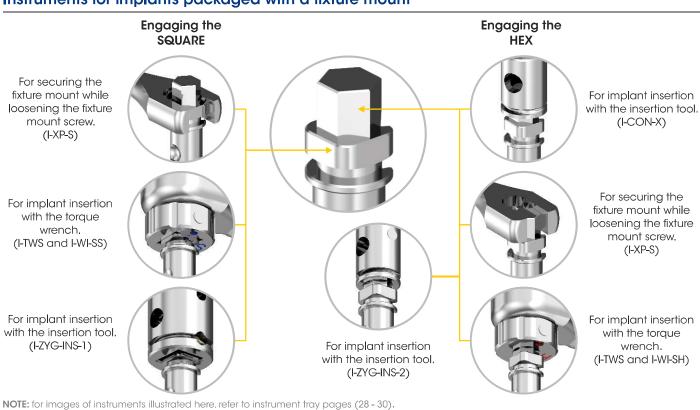
RANGE	READED DRONAL AMETER	AINED DY 1ETER	PROSTHETIC PLATFORM	GOMA HREAD AMETER	XII	XX THO	EAD GTH	EAD	APEX IAMETER	ATFORM or AD ANGLE	IMPLANT LENGTHS													
KANGE	THRE COR DIAN	MACHIN BODY DIAMEI	PROSI PLATE	ZYGON THREA DIAME	HEX	HEX	THREAL	THRE,	AP	PLATFC HEAD,	27.5	30	32,5	35	37.5	40	42.5	45	47.5	20	52.5	22	57.5	09
ZYG-55	4.3	N/A	4.0	4.3	2.70	0.7	Full	0.6	3.0	55°				√			√			√		√		$\sqrt{}$
ZYGAN®	4.3	3.4	4.0	3.4	2.70	0.7	15	0.6	2.8	55°		<b>√</b>	1	1	√		√			√	√	√	<b>√</b>	$\sqrt{}$
ZYGIN	4.3	3.4	4.0	3.4	2.70	0.7	15	0.6	2.8	55°		√	1	1					√	√	√	<b>√</b>	√	$\sqrt{}$
ONC-55	N/A	3.5	4.0	4.3	2.70	0.7	15	0.6	3.0	55°			$\sqrt{}$						$\sqrt{}$					
ZYGEX	N/A	3.4	4.0	3.4	2.70	0.7	15	0.6	2.8	55°		1	1	1						√		√	<b>√</b>	$\sqrt{}$

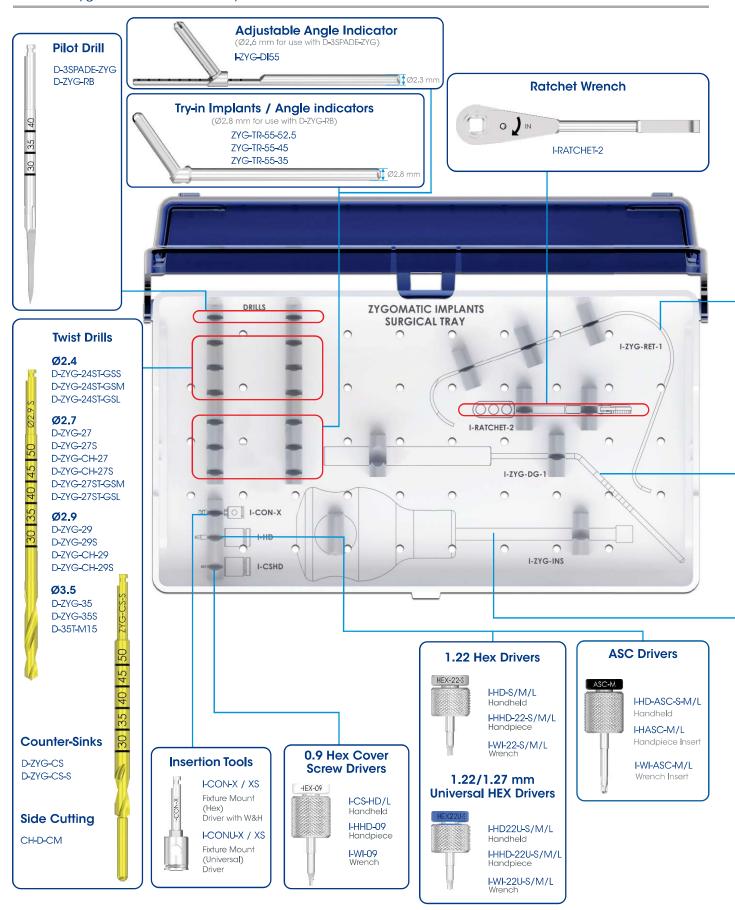


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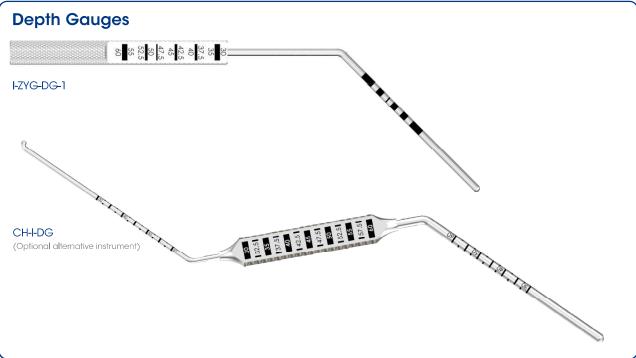
#### Instruments for implants packaged with a fixture mount

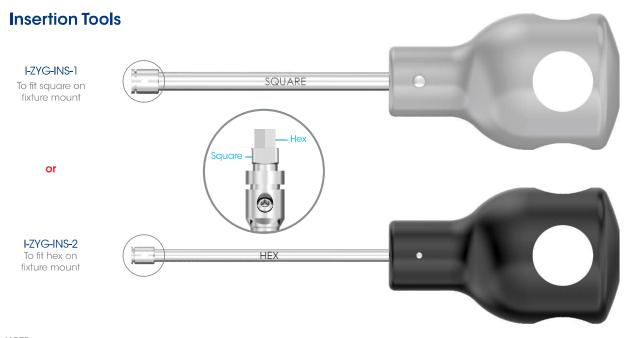




- the instrument kit has an intuitive layout to guide the surgeon through the drill sequence,
- most instruments are available in short / medium / long.
- all instruments and tooling used during the procedure must be maintained in good condition, cleaned and sterilised prior to use. Please consult the
  Instructions for Use: Southern Implants instrument tray and reusable instruments (CAT-8003 and CAT-8070) for guidance concerning the maintenance of
  instruments and surgical trays. Please consult the corresponding drill Instructions for Use regarding care and maintenance of drills.

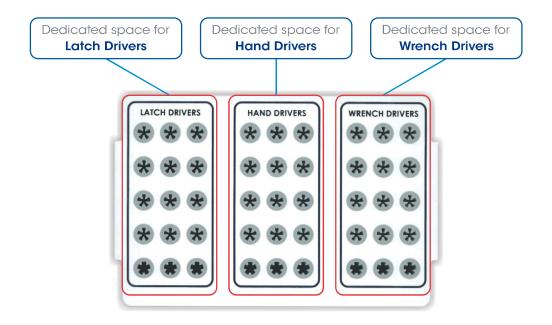


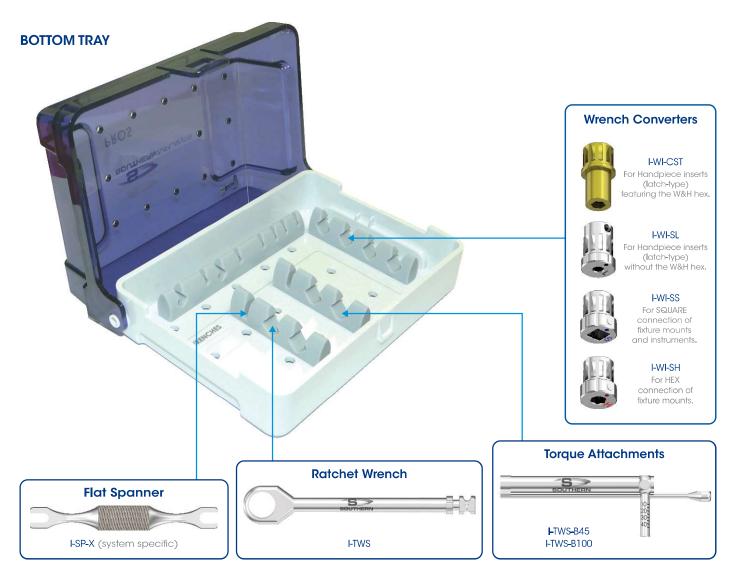




- I-ZYG-INS-1 drives on the square of the fixture mount (silver handle for easy identification).
  I-ZYG-INS-2 drives on the hex of the fixture mount. The narrow hex tip allows for more visibility of the implant head (black handle for easy identification).

#### **TOP TRAY**





- this instrument tray is to be customised by the user to be suitable for use with the preferred implant system and its surgical or prosthetic items.
- most instruments are available in various lengths.

#### **EXPLANATION OF LABELING SYMBOLS**

The following symbols are used on packaging labels and they indicate the following:

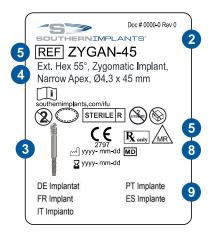


- Colour code indicating platform diameter
- 3 Implant image
- 4 Implant details and size
- 5 STERLER Sterilisation using Irradiation
  - **EC REP** European Representative
    - REF Catalogue number
    - **LOT** Batch Code
    - Do not Resterilise
    - Consult instruction for use
    - 2 Do not reuse
  - **CE** CE mark and notified body number
    - Use by Date

  - ( Do not use if package is damaged
  - MD Identifies the product as a medical device
  - MR Conditional / Magnetic Resonance Conditional
  - Single sterile barrier system
  - O Double sterile barrier
- 6 2D Bar coding Contains the GTIN, Use by date and LOT number
- 7 Patient sticker for documentation purposes (to be used by health care provider on patient file)
- 8 R Prescription device

**CAUTION:** FEDERAL LAW RESTRICTS THE DEVICE TO SALE BY OR ON THE ORDER OF A LICENCED HEALTH CARE PROVIDER.

9 Product description (translated as per international standards)











For more information on Instructions for Use of our products, please scan the below,



or visit our website southernimplants.com/ifu

For more information scan the below



to contact your Southern Implants Representative or visit southernimplants.com



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