
Digital Laboratory Analogues for 3D Printed or Milled Models During CAD/CAM Procedures

Southern Implants' Digital Laboratory Analogues are a part of the SIDigital comprehensive solution for CAD/CAM procedures. Digital Laboratory Analogues are intended to be used as dental implant replicas inserted into a 3D printed or a milled model to duplicate the location, orientation, and restorative platform of the implant placed in the mouth during CAD/CAM procedures. Southern Implants' Digital Laboratory Analogues are manufactured from titanium, available in multiple connections and supplied as two-pieces; the Analogue that matches the prosthetic diameter of the implant and a screw to secure the analogue in the model.

Intended Use

Southern Implants' digital laboratory analogues are intended to be used as dental implant replicas that has to be inserted into a 3D printed or a milled model in order to duplicate the location, orientation, and restorative platform of the implant placed in the mouth during CAD/CAM procedures.

Description

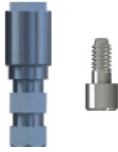
Digital laboratory analogues are pre-manufactured components and are available in different connections. The items are to be fitted into a 3D printed or a milled model. Digital analogues are manufactured from Titanium, and are a two-piece component. The main component is anodized to match the prosthetic diameter of the implant being restored, and is supplied with a screw to secure the seat of the analogue in the model.

NOTE: Southern Implants digital analogues are for single use only. Re-use of the analogue can result in loss of accuracy.

External Hex



Order Number LAD-IP
Scan Flag SFT-EX-30
to be used with Ø3.0mm External Hex Implant



Order Number LAD-IBN
Scan Flag SFT-EX-34
to be used with Ø3.25mm External Hex Implant



Driver
Order Number I-HD-M
(1.22 hex)



Order Number LAD-BA
Scan Flag SFT-EX-50
to be used with Ø5.0mm External Hex Implant & MAX-7



Order Number LAD-BBB
Scan Flag SFT-EX-60
to be used with Ø6mm External Hex Implant & MAX-8



Order Number LAD-L-35
Scan Flag SF-EL-35
to be used with Ø3.5mm TRI-NEX implant



Order Number LAD-L-43
Scan Flag SF-EL-43
to be used with Ø4.3mm TRI-NEX implant



Order Number LAD-L-50
Scan Flag SF-EL-50
to be used with Ø5mm TRI-NEX implant & TRI-MAX®-7



Order Number LAD-L-60
Scan Flag SF-EL-60
to be used with Ø6mm TRI-NEX implant & TRI-MAX®-8 & 9



Driver
Order Number I-HD-M
(1.22 hex)

DC Range



Order Number LAD-DC3
Scan Flag SF-DC3
to be used with Ø3mm Deep Conical implant



Order Number LAD-DC4
Scan Flag SF-DC4
to be used with Ø3.5mm & Ø4mm Deep Conical implant



Order Number LAD-DC5
Scan Flag SF-DC5
to be used with Ø5mm Deep Conical implant



Driver
Order Number I-HD-M
(1.22 hex)

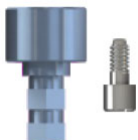
Internal Hex Range (M-Series & PROVATA™)



Order Number LAD-M
Scan Flag SF-M
to be used with
Ø3.7mm / Ø4.2mm / Ø5mm Internal Hex implants (M-series)

& Ø4mm / Ø5mm PROVATA

& Ø6mm PROMAX® implants



Order Number LAD-Z
Scan Flag SF-Z
to be used with
Ø7mm / Ø8mm / Ø9mm PROMAX® implants



Driver
Order Number I-HD-M
(1.22 hex)

IT (Internal Octagon) Range



Order Number LAD-ITS
Scan Flag SF-IT
to be used with
Ø4.8mm IT implants & MAXIT7



Order Number LAD-IT6
Scan Flag SF-IT6
to be used with
Ø6.5mm IT implants & MAXIT8 & 9



Driver
Order Number I-HD-M
(1.22 hex)

Abutment Level (Compact Conical Abutment)



Order Number LAD-MC
Scan Flag SF-MC-48
to be used with
Ø4.8mm platform Compact Conical Abutments



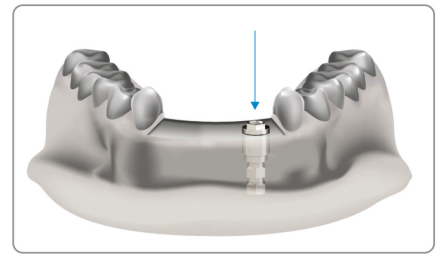
Order Number LAD-MCW
Scan Flag SF-MC-60
to be used with
Ø6mm platform Compact Conical Abutments



Driver
Order Number I-HD-M
(1.22 hex)

Procedures:

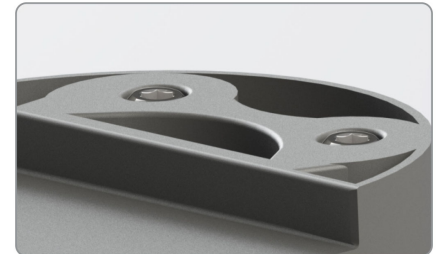
1. The implant position is obtained digitally by an intraoral scan of the patient with the Scan flag attached to the implant.
2. Remove the Scan flag from the implant/s, and replace with healing abutment/s.
3. The scan is then imported into the design software.



The digital analogue is inserted into the channel from the top of the model.

Design Procedures:

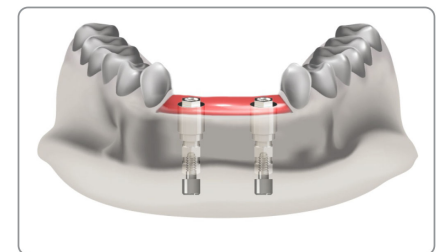
4. The Scan flag in the digital form is now matched and aligned with the corresponding Scan flag in the library.
5. Model design software is chosen and the digital laboratory analogue is positioned digitally in the model.
6. The software will guide the user through the steps to design and complete the model.



The model is turned upside down and a hex driver (I-HD-S/M/L) is used to secure the analogue to the model with the analogue screw.

Milling Procedures:

7. The digital stl file of the model is sent to a 3d printer or a milling machine to print/mill.
8. The digital analogues are inserted from the top into the open channel of the 3d printed/milled model. A soft tissue model is always recommended.
9. The model is turned upside down, and the screw is inserted apically and finger tightened with a 1.22mm hex driver to the analogue. This will secure the analogue into the printed or milled model.



Completed soft tissue model with apical screws inserted into the model.

Notes:

- The digital analogue must be used with the corresponding digital analogue in the libraries.
- The screw must not be torqued – only finger tightened.

Material:

Digital lab analogue: Titanium

Digital lab analogue screw: Stainless steel
