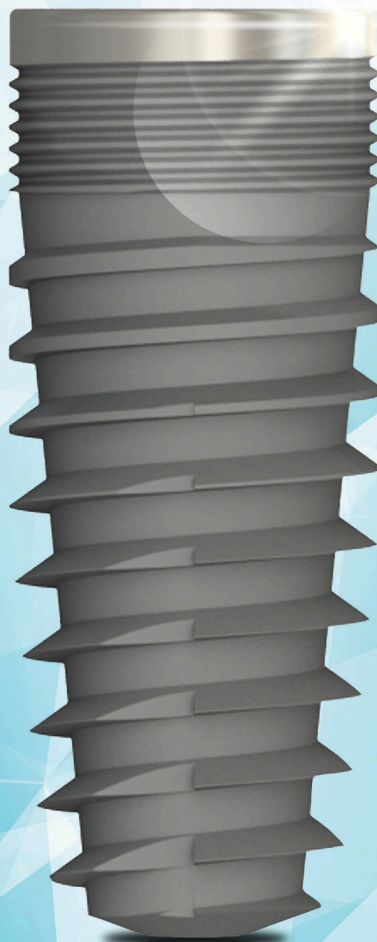


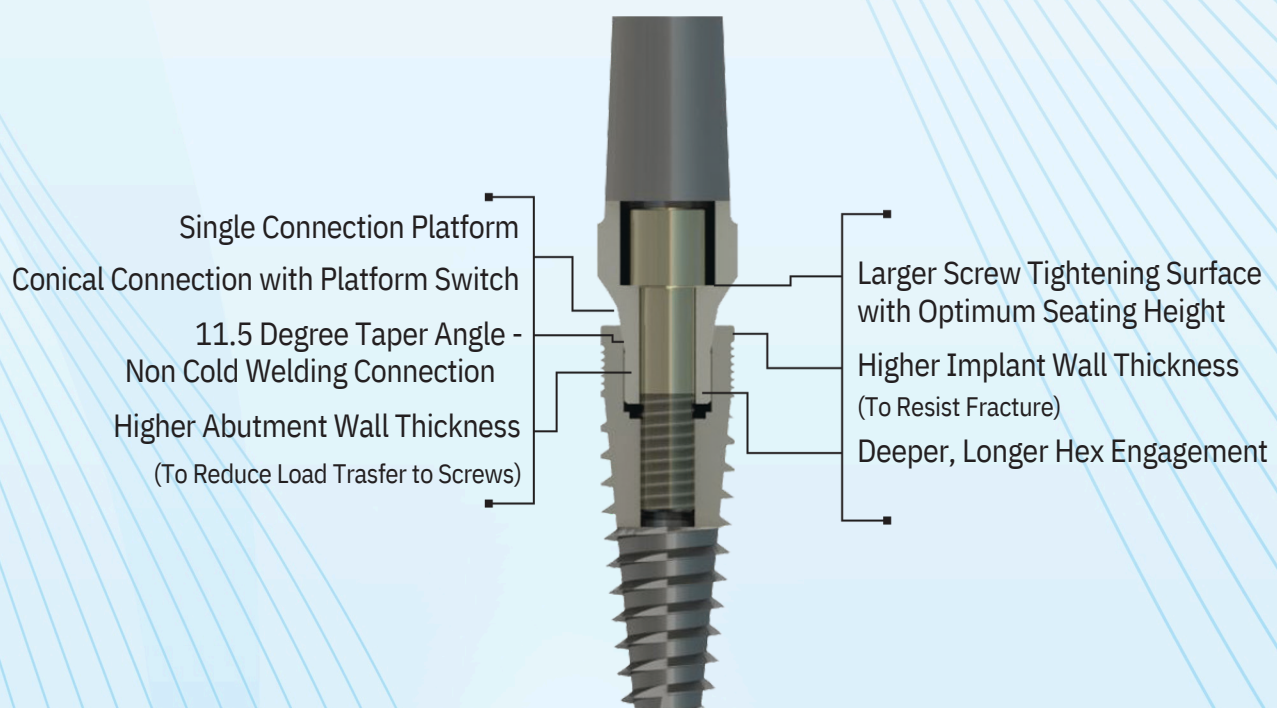
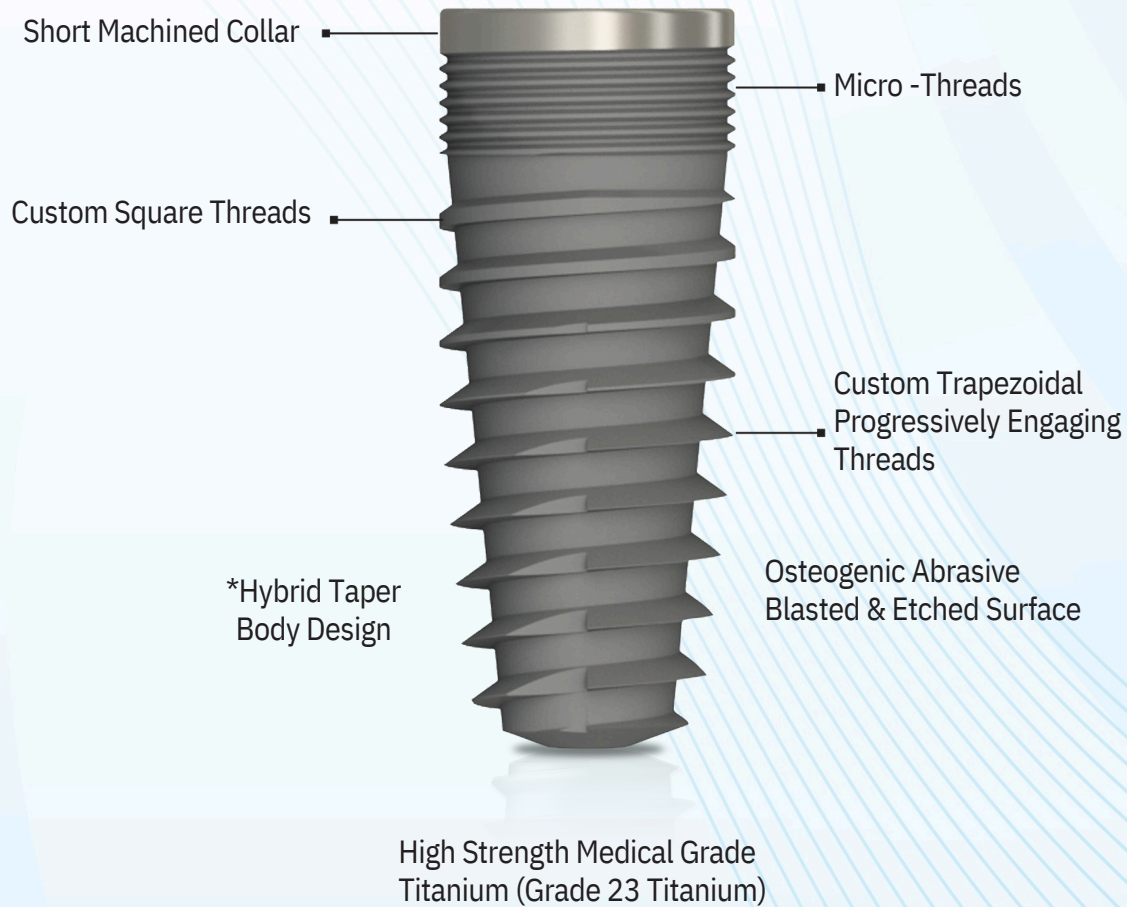
ReFirm[®]
Rooted in Trust



ENGINEERED
FOR CLINICAL
EXCELLENCE

ReFirm® Key Features

Rooted in Trust





Titanium Grade 23

Medically compatible and proven grade. Titanium Grade 23 is 60% stronger than commonly used Grade 4 cp-Ti.

	Grade 1 C Titanium	Grade 2 CP Titanium	Grade 3 CP Titanium	Grade 4 CP Titanium	Grade 23 Titanium
Ultimate Strength (MPa)	240	430	440	550	860
Yield Strength (MPa)	170-310	340	377-520	480-552	790

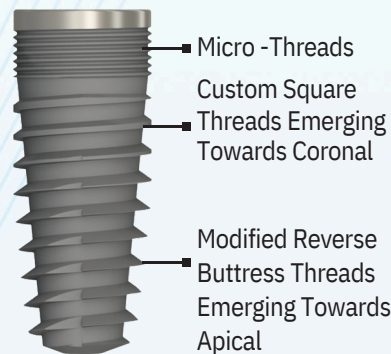
Progressively Engaging Thread Design

Custom Trapezoidal Progressively Engaging Thread with optimized pitch, flank angles and root to flank ratios.

Thread emergence depth and type varying across length from apical to Higher inter flank space for increased bone Implant contact.

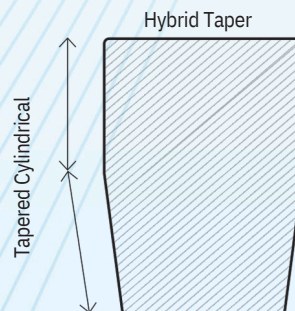
Optimized and uniform load transfer to the hard cortical and the soft cancellous bone.

Lower stress in the Implant bone interface, Implant abutment junction.



Average choices like V-thread, Buttress, Square, or similar threads have lower compressive load transfer and lower bone-implant contact

Pure cylindrical is difficult to place and pure tapered has poor stability and load distribution.



Shape: Hybrid (Cylindrical & Tapered)

Good primary and secondary stability

Better load distribution between softer cancellous and harder cortical region within the jaw.

Better protection against biting overloads.

Doesn't compromise with lateral stability, due to cylindrical profile at the cortical region.

Abutment-Implant Connection Conical Hex

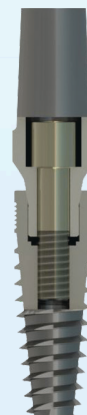
Lower micro movement between abutment and Implant.

Lesser loads on screw and reduced screw loosening possibility.

Tight Sealing at interface, lower micro-gaps and microleakages.

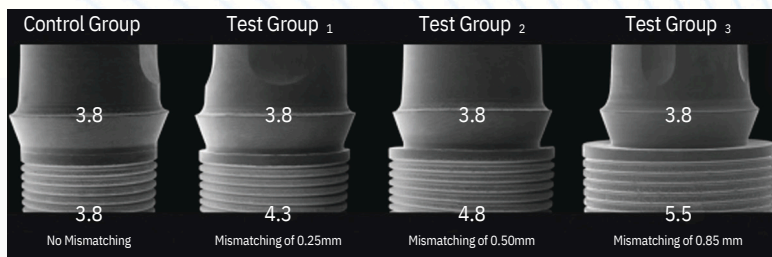
Longer Hex provides better load bearing area for lateral forces.

Better bone and soft tissue preservation.



Conical connection with adequate Implant, abutment thickness and deep engagement has better strength against lateral loads, better seating at implant abutment junction, and better resistance to micro-pumping effects

A function of Abutment wall thickness, Implant wall thickness, Depth of Hex engagement, Length of Hex, Height of screw seating, Material choice, Cone taper angle.



Better marginal bone stability is seen with platform switched implants as compared to platform matched implants.

Canullo L, Fedele GR, Iannello G, Jepsen S. Platform switching and marginal bone-level alterations: the results of a randomized-controlled trial. Clin Oral Implants Res. 2010 Jan;21(1):115-21.

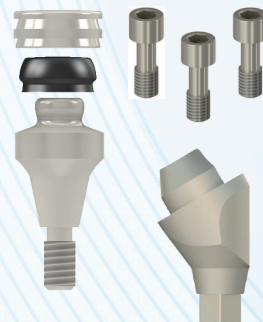
Variety and Versatility Along with Minimum Inventory

Wide variety of healing abutments and stock abutment choices at various gingival heights and emergence enables clinician to pick the right stock abutments for a variety of clinical cases. This is coupled with choice of angular abutments, multi-units and overdenture abutments.

All these are provided on single connection platform making it possible for the clinician to plan the prosthesis with minimum inventory and peace of mind.

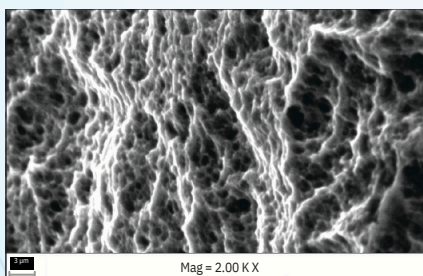
Open and closed tray coping with various heights are available for a seamless impression transfer.

For the digitally inclined, scan bodies of different heights along with digital analog, ensures a digital transfer of impression and prosthetic preparation.



Better than other systems that has different connection platforms for different diameter ranges.

Easy to plan prosthesis, wide variety, minimum inventory.



Surface Characterization

The micro surface treatment that includes abrasive blasting and acid etching on the machined titanium implants, are designed to achieve excellent osseointegration of the implants.

Easy Implant Pick and Convey to the Site

Unique Implant Packaging and instrumentation that makes it easy to convey to the site.

Easy Pick, place and drive with "Flex Grip" drivers without any need for mounts.

'Assure' drivers that will retain connection between implant and driver at all times while placing in critical areas (sinus, pterygoid etc.).

Armamentarium kit in different sizes based on instrumentation needs of clinician.



Clinically Proven Performance

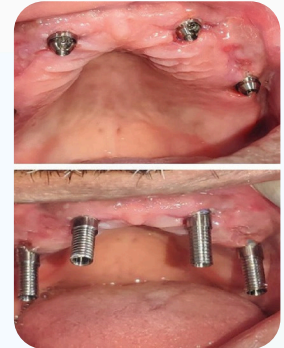
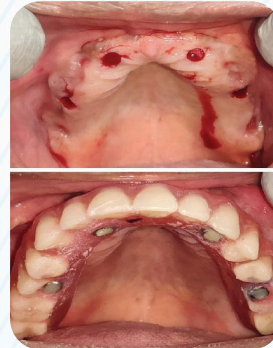
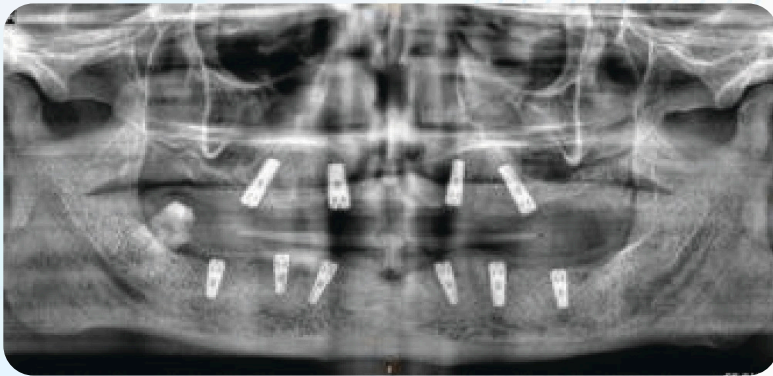
Through a Pan India multi-centric clinical study at 9 institutes across the country over two years, a first of its kind in India, the product performance is fully validated.

Key findings

- Easy to Place
- Good primary and secondary stability
- Good Marginal bone preservation
- Global equivalence in Implant success rates

Thousands of Implants in use successfully across India.

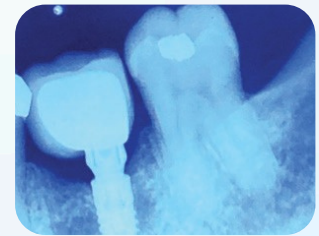
Full Arch Implant Prosthesis



2 Implant Overdenture



Single Implant
Fixed Prosthesis



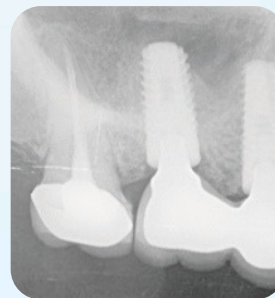
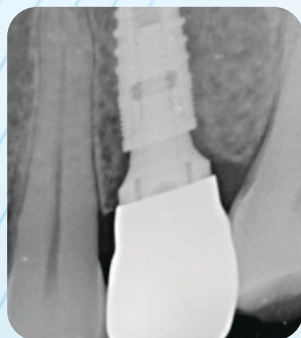
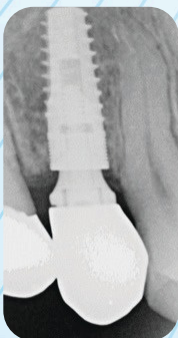
Screw Retained
Implant Prosthesis

(1 year follow-up)



Single Implant Fixed Prosthesis

(1.5 years follow-up)



Single Implant Fixed Prosthesis

Fixed Implant Prosthesis

(3 years follow-up)



Stable Bone Levels

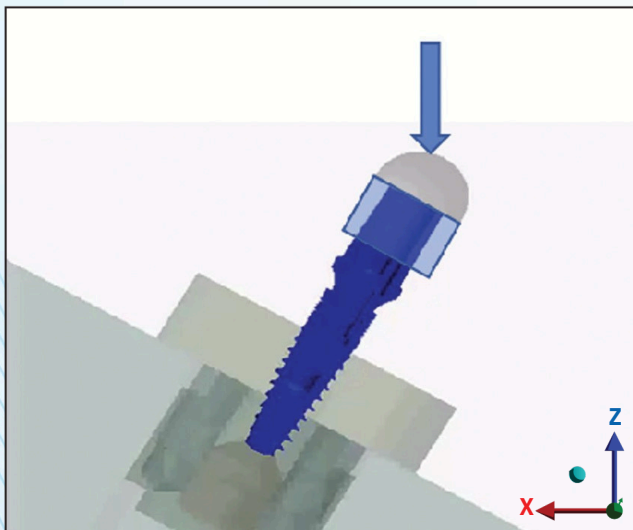
1.5 Years Follow Up



Fixed Implant Prosthesis

FEA Analysis

Stress Map In Worst Case Condition



Finite Element Analysis in Worst Case Condition

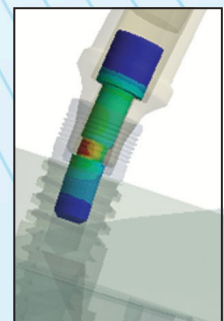
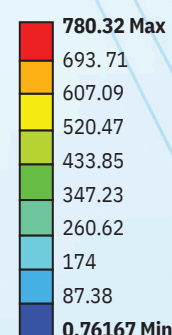
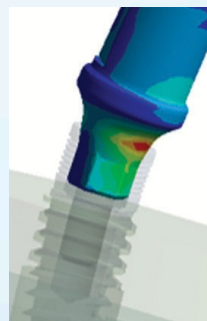
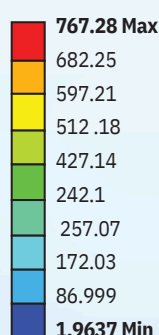
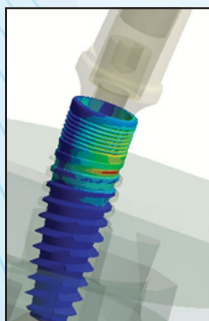
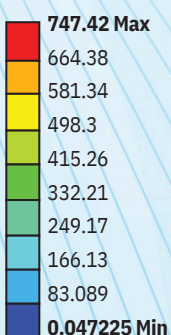
Bending Loads with 3 mm Supra-Crestal Overhang

Peak stresses well within the material strength of Grade 23 Titanium

Stress zones are away from critical cortical bone-Implant junction

Load well dissipated amongst component interfaces

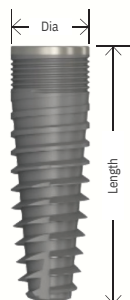
Results predictive of long-term success



Product Information

Implant-Abutment & Accessories

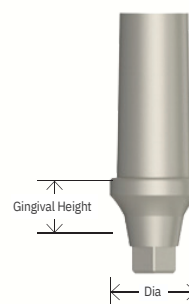
○ IMPLANT



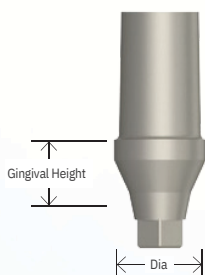
Length (mm)	Diameter (mm)				
	Ø 3.5	Ø 4.0	Ø 4.5	Ø 5.0	Ø 5.50
8.5	11R-IM-XR001	11R-IM-XR006	11R-IM-XR011	11R-IM-XR016	11R-IM-XR021
10	11R-IM-XR002	11R-IM-XR007	11R-IM-XR012	11R-IM-XR017	11R-IM-XR022
11.5	11R-IM-XR003	11R-IM-XR008	11R-IM-XR013	11R-IM-XR018	11R-IM-XR023
13	11R-IM-XR004	11R-IM-XR009	11R-IM-XR014	11R-IM-XR019	11R-IM-XR024
15	11R-IM-XR005	11R-IM-XR010	11R-IM-XR015	11R-IM-XR020	

○ STRAIGHT ABUTMENT

Gingival Height (mm)	Diameter (mm)				
	Ø 3.8	Ø 4.2	Ø 4.5	Ø 5.2	Ø 5.7
1.2	11R-AS-XR019	11R-AS-XR017	11R-AS-XR018	11R-AS-XR022	
2.2	11R-AS-XR020	11R-AS-XR001	11R-AS-XR002	11R-AS-XR003	11R-AS-XR004
3.0	11R-AS-XR016	11R-AS-XR006	11R-AS-XR007	11R-AS-XR008	11R-AS-XR009
4.0	11R-AS-XR021	11R-AS-XR011	11R-AS-XR012	11R-AS-XR013	11R-AS-XR014



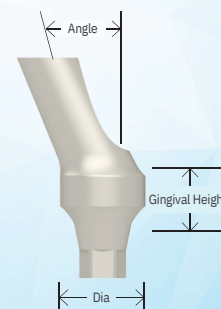
○ ST. ABUTMENT SUB CRESTAL



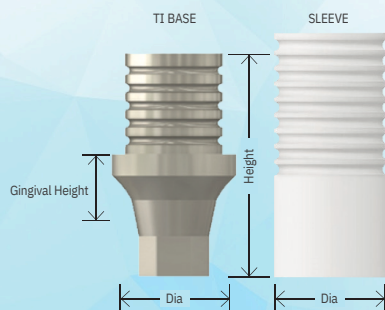
Gingival Height (mm)	Diameter (mm)		
	Ø 3.8	Ø 4.2	Ø 4.5
3.0	11R-AS-XR027	11R-AS-XR025	11R-AS-XR023
4.0		11R-AS-XR026	11R-AS-XR024

○ ANGULAR ABUTMENT

Product Code	11R-AA-XR001	11R-AA-XR002
Angle (degree)	15	25
Gingival Height (mm)	3.0	3.0
Dia (mm)	Ø 4.5	Ø 4.5



○ CASTABLE ABUTMENT

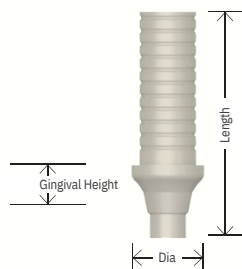


Product Code	Description	Length (mm)	Diameter (mm)	Gingival Height (mm)
11R-AC-XR001	Ti base with Hex with Sleeve	8.3	Ø 4.5	2.2
11R-AC-XR002	Fully Castable with Hex	11.5	Ø 4.5	2.2
11R-AC-XR004	Fully Castable without Hex	11.5	Ø 4.5	2.2

Product Information

Implant-Abutment & Accessories

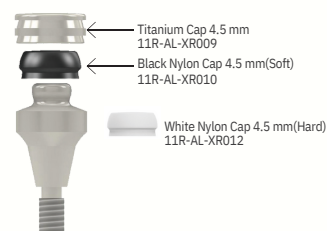
○ Ti BASE TEMPORARY ABUTMENT



Product Code	Description	Length (mm)	Diameter (mm)	Gingival Height (mm)
11R-AC-XR006	Ti base without Hex	14	Ø 4.5	2.2

○ OVERDENTURE ABUTMENT (OD)

Gingival Height (mm)	Ø 4.5
2.2	11R-AL-XR011 - OD Pro Abutment(GH2.2*CD 4.5)
3.0	11R-AL-XR005 - OD Pro Abutment(GH3.0*CD4.5)
4.0	11R-AL-XR006 - OD Pro Abutment(GH4.0*CD4.5)



○ ABUTMENT LOCKING SCREW



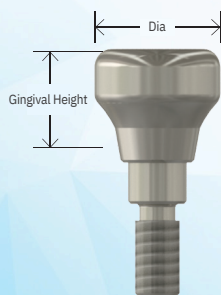
Product Code
11R-SL-XR001

HEALING / COVER SCREW ○



Product Code
11R-SH-XR001

○ HEALING ABUTMENT / GINGIVAL FORMER



Gingival Height (mm)	Diameter (mm)			
	Ø 3.8	Ø 4.2	Ø 4.5	Ø 5.2
2.2	11R-AH-XR030	11R-AH-XR001	11R-AH-XR004	11R-AH-XR007
3.0	11R-AH-XR031	11R-AH-XR002	11R-AH-XR005	11R-AH-XR008
4.0	11R-AH-XR032	11R-AH-XR003	11R-AH-XR006	11R-AH-XR009
5.0		11R-AH-XR016	11R-AH-XR018	11R-AH-XR020
6.0		11R-AH-XR017	11R-AH-XR019	11R-AH-XR021

○ HEALING ABUTMENT / GINGIVAL FORMER - SUB CRESTAL

Gingival Height (mm)	Diameter (mm)		
	Ø 4.2	Ø 4.5	Ø 5.2
3.0	11R-AH-XR027	11R-AH-XR025	11R-AH-XR029
4.0	11R-AH-XR028		



Product Information

Implant-Abutment & Accessories

IMPLANT ANALOG



Product Code
11R-LA-XR001



IMPRESSION COPING

Product Code	Description
11R-LC-XR009	Impression Coping - Open Tray - Short
11R-LC-XR013	Impression Coping - Open Tray - Long
11R-LC-XR007	Impression Coping - Closed Tray - Short
11R-LC-XR010	Impression Coping - Closed Tray - Long

COPING SCREWS



Product Code	Description
11R-LC-S001	Closed Tray Screw - Long



Product Code	Description
11R-LC-S005	Closed Tray Screw - Short



Product Code	Description
11R-LC-S006	Open Tray Screw - Long

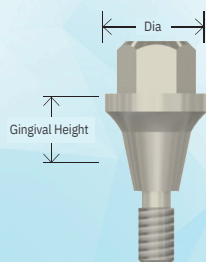


Product Code	Description
11R-LC-S002	Open Tray Screw - Short

Product Information

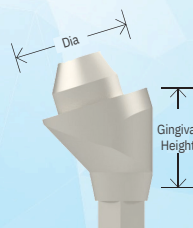
Multi-Unit Components

STRAIGHT MULTI-UNIT



Gingival Height (mm)	Dia (mm)
	Ø 4.5
2.2	11R-MS-XR004
3.0	11R-MS-XR005
4.0	11R-MS-XR006

17° ANGULAR MULTI-UNIT

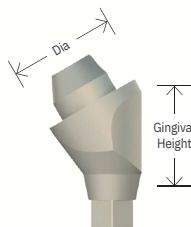


Gingival Height (mm)	Dia (mm)
	Ø 5.2
2.5	11R-MA-XR011
3.5	11R-MA-XR015
4.5	11R-MA-XR012
5.5	11R-MA-XR016

Product Information

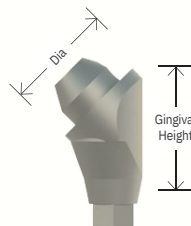
Multi-Unit Components

30° ANGULAR MULTI-UNIT



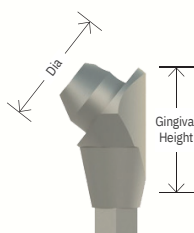
Gingival Height (mm)	Dia (mm)
3.5	11R-MA-XR017
4.5	11R-MA-XR014
5.5	11R-MA-XR018

45° ANGULAR MULTI-UNIT



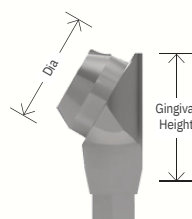
Gingival Height (mm)	Dia (mm)
5.5	11R-MA-XR019
6.5	11R-MA-XR020

52° ANGULAR MULTI-UNIT



Gingival Height (mm)	Dia (mm)
4.5	11R-MA-XR021
5.5	11R-MA-XR022
6.5	11R-MA-XR023

60° ANGULAR MULTI-UNIT



Gingival Height (mm)	Dia (mm)
6.5	11R-MA-XR024

Product Information

Multi-Unit Prosthetics

MULTI-UNIT Ti CYLINDER



Multi-Unit Abutment	Dia (mm)	Multi-unit Ti Cylinder	Multi-unit Fully Castable Cylinder
		Product Code	Product Code
For Straight MU	Ø 4.5/Ø 5.2	11R-AL-XR001/11R-AL-XR015	11R-AL-XR008/11R-AL-XR016
For 17°, 30°, 45°, 52° MU	Ø 5.2	11R-AL-XR015	11R-AL-XR016
For 60° Multi-Unit	Ø 5.5	11R-AL-XR002	11R-AL-XR013



MULTI-UNIT HEALING CAP

Multi-Unit Abutment	Dia (mm)	Product Code
For Straight MU	Ø 4.5 / Ø 5.2	11R-MA-HR002/11R-MA-HR004
For 17°, 30°, 45°, 52° MU	Ø 5.2	11R-MA-HR004
For 60° Multi-Unit	Ø 5.5	11R-MA-HR003



Product Information

Multi-Unit Prosthetics

MULTI-UNIT PROSTHETIC SCREW



Product Code
11R-SL-MR001

MULTI-UNIT ABUTMENT SCREW



Product Code
11R-SL-MR002

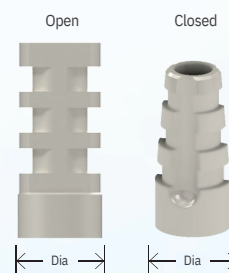
MULTI-UNIT ANALOG

Multi-Unit Abutment	Dia (mm)	Product Code
For Straight MU, 17°, 30°, 45°, 52° MU	Ø 4.5 / Ø 5.2	11R-LA-XR002 or 11R-DG-XR011
For 60° Multi-Unit	Ø 5.5	11R-LA-XR003 or 11R-DG-XR012



MULTI-UNIT (MU) IMPRESSION COPING

Multi-Unit Abutment	Dia (mm)	MU Impression Coping Open Tray	MU Impression Coping Closed Tray
		Product Code	Product Code
For Straight MU, 17°, 30°, 45°, 52° MU	Ø 4.5 / Ø 5.2	11R-LC-XR002	11R-LC-XR004
For Straight MU, 17°, 30°, 45°, 52° MU	Ø 5.2	11R-LC-XR002	11R-LC-XR004
For 60° Multi-Unit	Ø 5.5		11R-LC-XR005



MU - IMPRESSION COPING SCREW OPEN TRAY



Product Code
11R-LC-S003

MU - IMPRESSION COPING SCREW CLOSED TRAY



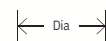
Product Code
11R-LC-S004

Product Information

Digital Components

DIGITAL SCAN BODY

Type	Dia (mm)	
	Ø 3.8	Ø 4.5
Short	11R-DG-XR007	11R-DG-XR003
Long	11R-DG-XR008	11R-DG-XR006



Description	Product Code
Scan Body Locking Screw	11R-SL-XR002



Description	Product Code
Digital Analog	11R-DG-XR002

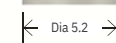


Description	Product Code
Retention Screw	11R-RS-XR001



MULTI-UNIT DIGITAL SCAN BODY

Multi-Unit Abutment	Dia (mm)	Product Code
For Straight MU, 17°, 30°, 45°, 52° MU	Ø 4.0 - Short	11R-DG-XR010
	Ø 4.0 - Long	11R-DG-XR009
For 60° Multi-Unit	Ø 5.2 - Short	11R-DG-XR014
	Ø 5.2 - Long	11R-DG-XR013

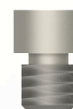


MULTI-UNIT DIGITAL ANALOG

Multi-Unit Abutment	Product Code
For Straight MU 17°, 30°, 45°, 52° MU	11R-DG-XR011
For 60° Multi-Unit	11R-DG-XR012



Description	Product Code
Multi-Unit Prosthetic Screw	11R-SL-MR001



Description	Product Code
Retention Screw	11R-RS-XR001

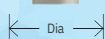


Ti BASE WITH HEX

Gingival Height (mm)	Dia (mm)		
	Ø 3.8	Ø 4.2	Ø 4.5
1.2		11R-AT-XR004	11R-AT-XR008
2.2	11R-AT-XR001	11R-AT-XR005	11R-AT-XR009
3.0	11R-AT-XR002	11R-AT-XR006	11R-AT-XR010
4.0	11R-AT-XR003	11R-AT-XR007	11R-AT-XR011



Ti BASE WITHOUT HEX



Gingival Height (mm)	Dia (mm)		
	Ø 3.8	Ø 4.2	Ø 4.5
1.2		11R-AT-XR015	11R-AT-XR019
2.2	11R-AT-XR012	11R-AT-XR016	11R-AT-XR020
3.0	11R-AT-XR013	11R-AT-XR017	11R-AT-XR021
4.0	11R-AT-XR014	11R-AT-XR018	11R-AT-XR022

REFIRM SURGICAL KIT ELITE

Product Code

11R-TK-XR001



REFIRM SURGICAL KIT COMPACT

Product Code

11R-TK-XR002

REFIRM SURGICAL KIT PRIME

Product Code

11R-TK-XR003



DRILLS

Description	Product Code	Diameter (mm)
Lance Drill	11R-TD-XR001-A	-
Pilot Drill	11R-TD-XR002-A	Ø 2.0
Drill	11R-TD-XR003-A	Ø 2.5
Taper Form Drill	11R-TD-XR004-A	Ø 2.9
Taper Form Drill	11R-TD-XR005-A	Ø 3.4
Taper Form Drill	11R-TD-XR006-A	Ø 3.9
Taper Form Drill	11R-TD-XR007-A	Ø 4.4
Taper Form Drill	11R-TD-XR008-A	Ø 4.9
Countersink Drill	11R-TD-XR009	Ø 3.2/2.9
Countersink Drill	11R-TD-XR010	Ø 3.7/3.4
Countersink Drill	11R-TD-XR011	Ø 4.2/3.9
Countersink Drill	11R-TD-XR012	Ø 4.7/4.4
Countersink Drill	11R-TD-XR013	Ø 5.3/4.9



Lance Drill



Drill



Taper Form Drill



Countersink Drill

STOPPERS

Implant Length (mm)	For Drill Ø 2.0 to Ø 3.4
8.5	11R-TS-XR001
10.0	11R-TS-XR002
11.5	11R-TS-XR003
13.0	11R-TS-XR004
15.0	11R-TS-XR005



Implant Length (mm)	For Drill Ø 3.9 to Ø 4.9
8.5	11R-TS-XR006
10.0	11R-TS-XR007
11.5	11R-TS-XR008
13.0	11R-TS-XR009
15.0	11R-TS-XR010

IMPLANT DRIVER-ASSURE SERIES

Description	Product Code
Implant driver-Assure Physio Adaptor	11R-TR-XR027
Implant driver-Assure-Short	11R-TR-XR020
Implant driver-Assure-Long	11R-TR-XR021



Assure Physio
Adaptor



Assure Driver

PARALLELING PIN

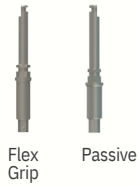
Dia (mm)	Product Code
Ø 2.0 / 2.5	11R-TP-XR001
Ø 2.5 / 2.9	11R-TP-XR002
Ø 2.9 / 2.0	11R-TP-XR003



Product Information

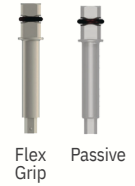
Instruments

HAND PIECE (HP) IMPLANT DRIVER



Type	Product Code	
	Flex Grip	Passive
Short	11R-TH-XR005	11R-TH-XR007
Long	11R-TH-XR006	11R-TH-XR008

IMPLANT RATCHET DRIVER SQ - HEAD(4X4)



Type	Product Code	
	Flex Grip	Passive
Short	11R-TR-XR025	11R-TR-XR030
Long	11R-TR-XR026	11R-TR-XR031

CONTRA - ANGLE CONNECTOR - SQ HEAD FOR RATCHET

Product Code
11R-TR-XR029



(Can be used for straight multi-unit tightening)

DRILL EXTENDER

Product Code
11R-TX-XR001



FIXTURE DIRECTION PIN

Product Code
11R-TP-XR004



RATCHET ADAPTOR (4x4)

Product Code
11R-TR-XR022



DEPTH MARKER

Dia (mm)	Product Code
Ø 2.0	11R-TG-XR001
Ø 2.5	11R-TG-XR002



1.25 HEX DRIVER WITH - SQ - HEAD (4x4)

Length (mm)	Product Code
Short - 17 mm	11R-TR-XR018
Long - 23 mm	11R-TR-XR019
Long - 27 mm	11R-TR-XR028



Note : To be used with Ratchet adaptor for hand tightening

TORQUE WRENCH

Settable Spring	
Description	Product Code
With integrated Ratchet adaptor 4X4	11R-TW-XR027

Note : Range 15-45 Ncm



Lever Type	
Description	Product Code
With integrated Ratchet adaptor 4X4	11R-TW-XR026

Note : Range 15-50 Ncm





Made from superior medical Grade 23 Titanium, incorporating the most recent advances in the field and novel features, Refirm® dental Implants are developed for market leading performance in ease of placement and stability. These implants are backed by years of research and testing. It is clinically validated for long-term success. This Implant system along with the complete set of associated instruments and armamentarium are designed and made in India with passion and pride. With a design that focuses on optimizing variety, a responsive supply chain, this offering is centered on winning dentists confidence and patient comfort.

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Int⁺essence
Solutions Pvt. Ltd.

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ISO 13485:2016 Certified

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