ADD plant On

PNU ADD
ADVANCED DENTAL DEVICES

Advanced SLA Surface
(Sandblasted with Large grits and Acid etched)

· 1.5-1.6μm fine surface roughness for minimizing of peri-implantitis
· Reducing bacterial adhesion and effective cleansing of contaminated surface
· Inducing optimal osseointegration & Long-term success
· Easy application of simplified GBR procedure

Implant Comparison
[Surface Roughness]

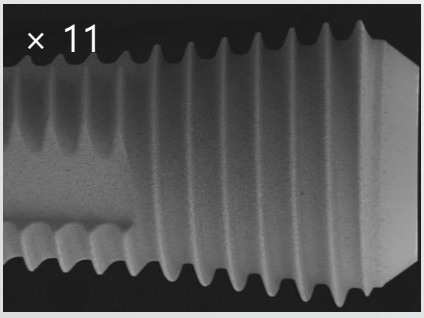
Other SLA Fixture

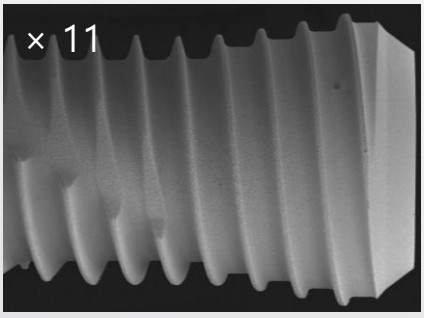
ADDplant ON Fixture

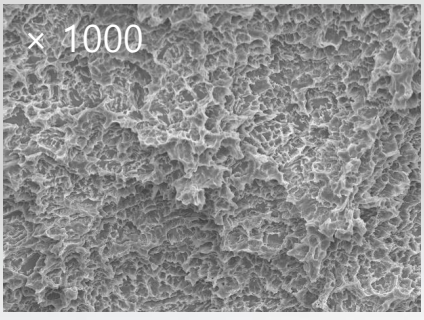
Surface roughness (μm)	Ra	Sa
Other SLA Fixture	2.5-3.0	2.5
ADDplant ON Fixture	1.5-1.6	1.7-1.8

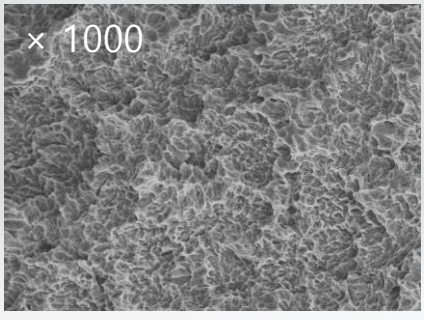
Other SLA Fixture
(SEM Analysis)

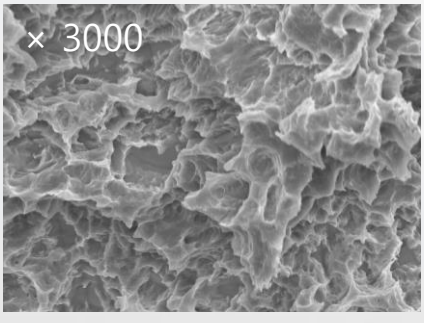
ADDplant ON Fixture
(SEM Analysis)

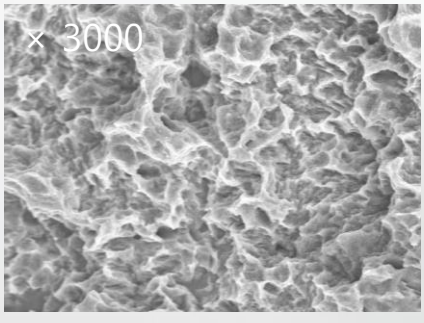












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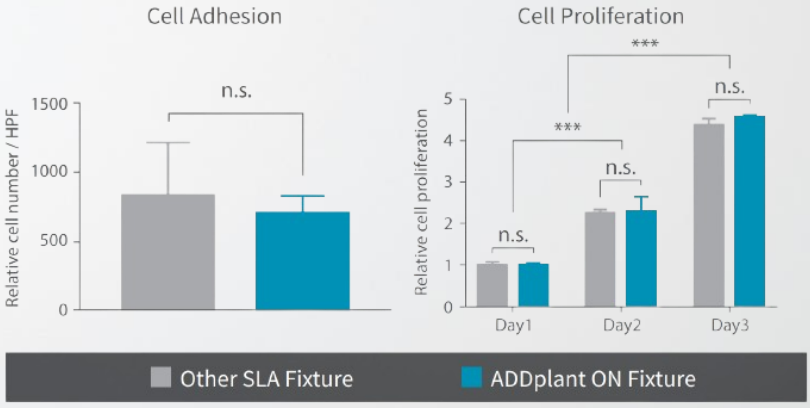
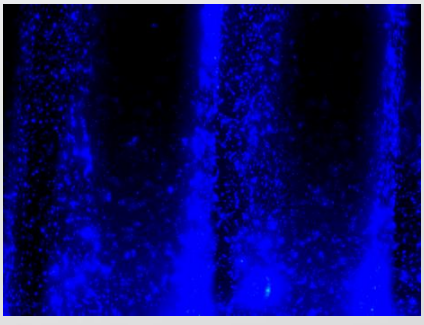
Implant Comparison
[Cell Adhesion / Cell Proliferation]

Other SLA Fixture

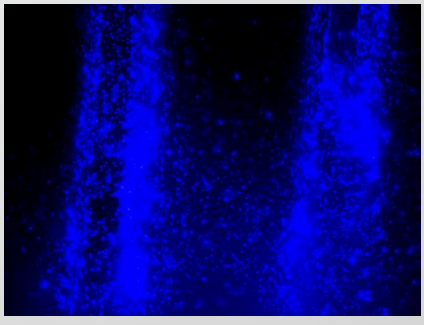
ADDplant ON Fixture



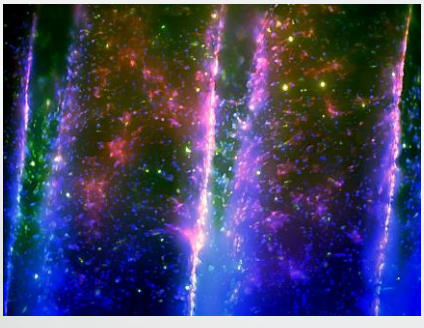
Other SLA Fixture
(Cell Adhesion)



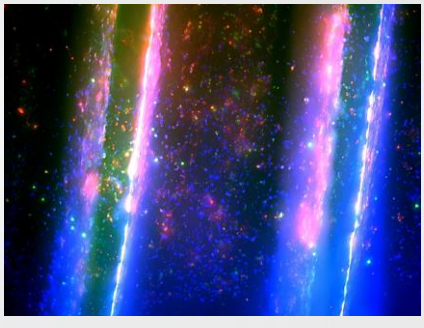
ADDplant ON Fixture
(Cell Adhesion)



Other SLA Fixture
(Cell Proliferation)



ADDplant ON Fixture
(Cell Proliferation)



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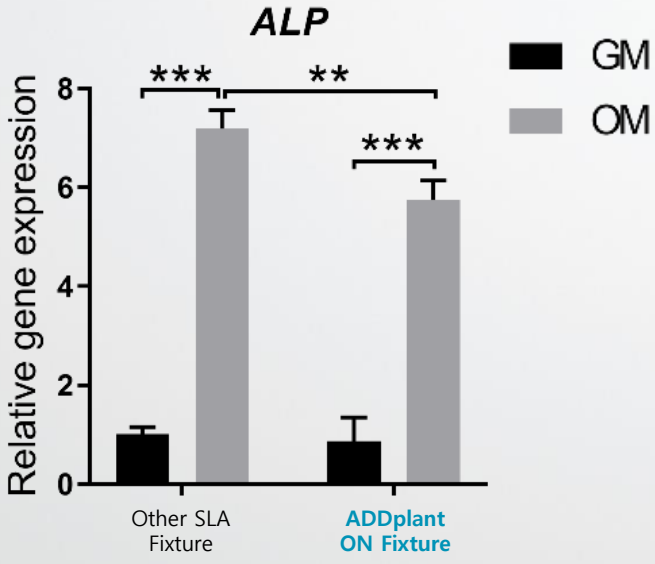
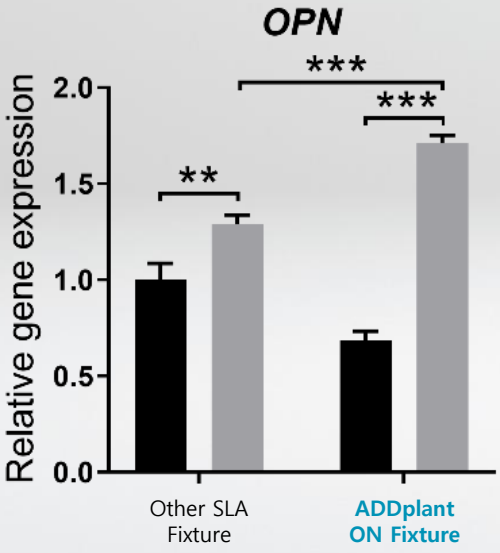
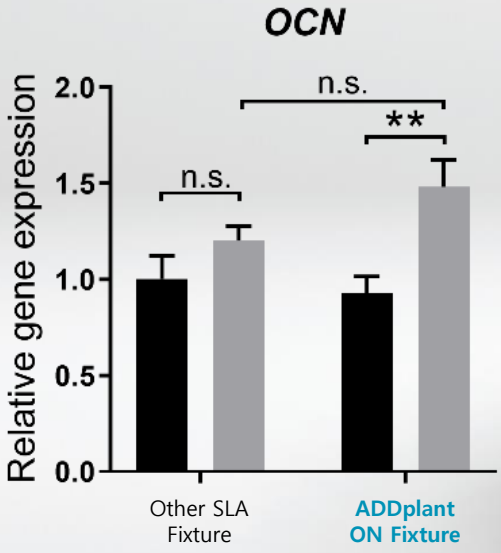
Implant Comparison
[Osteogenic differentiation]

Other SLA Fixture

ADDplant ON Fixture







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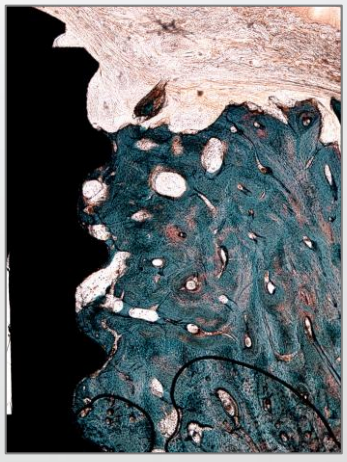
Implant Comparison
[Osseointegration / In-vivo]

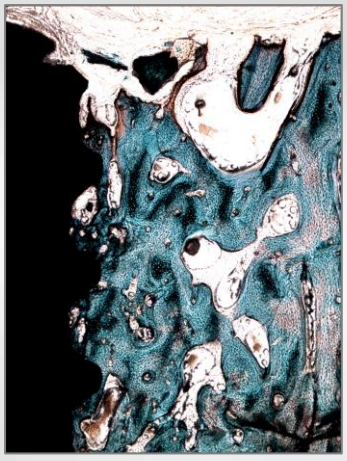
Other SLA Fixture

ADDplant ON Fixture

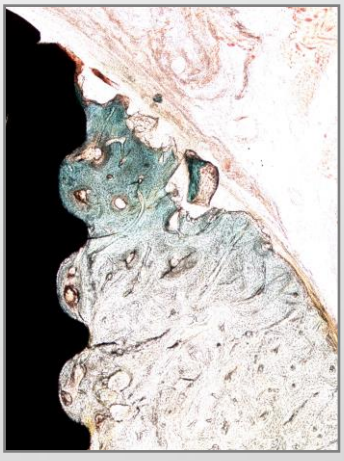
Histometric parameters (%)	BIC	ITBD
Other SLA Fixture	62.83 ± 11.82	66.54 ± 12.03
ADDplant ON Fixture	66.48 ± 10.06	72.26 ± 8.99

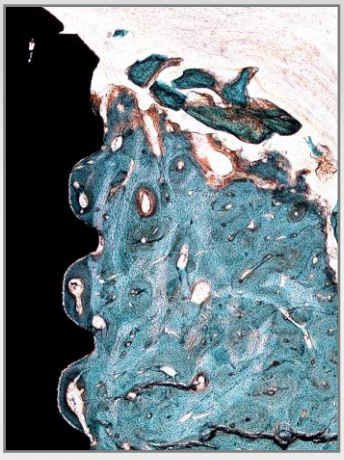
Other SLA Fixture
(SEM Analysis)





ADDplant ON Fixture
(SEM Analysis)





Clean Implant surface

· **Total 8-cleasing steps** thorough under vacuum condition
· Efforts to create a clean surface, No acid residues and impurities

Within 0.5 PPM (1mg/ L) for ion detection
NO_2, Br, PO_4 anions and heavy metals such as
Ni are not detected.

ADDplant ON Clinical Data

Research subjects	Time frame	Implantation quantity	Failure quantity	Survival Rate	Failure Rate[2]
Korea Medical Institutions[1] (121 locations)	2018.11.12 ~ 2024.05.01	105,618 ea	1,791 ea	**98.3 %**	1.7 %

[1] Including university dental hospital, dental clinics, medical device companies
[2] Including order errors and exchanges before product use.(1%)

R&D cooperative organizations

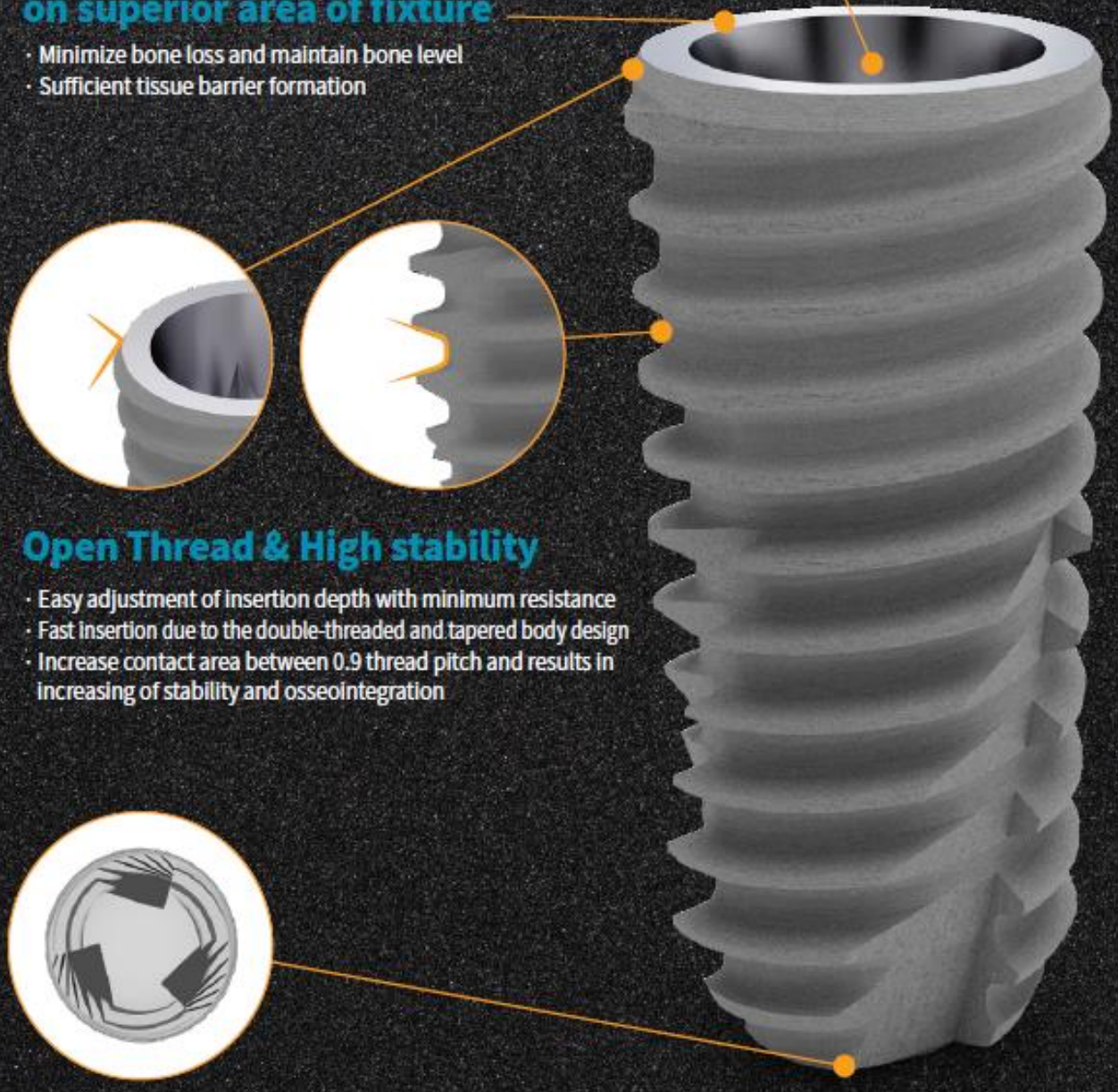
1. School of Dentistry, Pusan National University, Republic of Korea
2. Dr. Reuben Kim
   Professor and Chair in the Section of Restorative Dentistry , Divison of Constitutive and Regenerative Sciences , at the University of California Los Angeles (UCLA) School of Dentistry.
3. Prof. Jung-Bo Huh and Hyung-Joon Kim, School of Dentistry,
   Pusan National University, Republic of Korea

11° tapered, internal conical connection

- Allow tight sealing between implant and abutment interface
- Maximize abutment compatibility
- Prevent micro-sinking of abutment

Platform switching with wider width on superior area of fixture

- Minimize bone loss and maintain bone level
- Sufficient tissue barrier formation



Open Thread & High stability

- Easy adjustment of insertion depth with minimum resistance
- Fast insertion due to the double-threaded and tapered body design
- Increase contact area between 0.9 thread pitch and results in increasing of stability and osseointegration

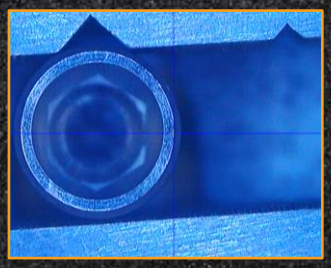
Flat end design with 3-wide cutting edge

- Improvement of comfortable fixation by 3-wide cutting edge
- Minimize bone destruction by self-tapping design of 3-wide cutting edge
- Reduction of bone perforation by flat end design

High Strength & Fracture-resistant Fixture

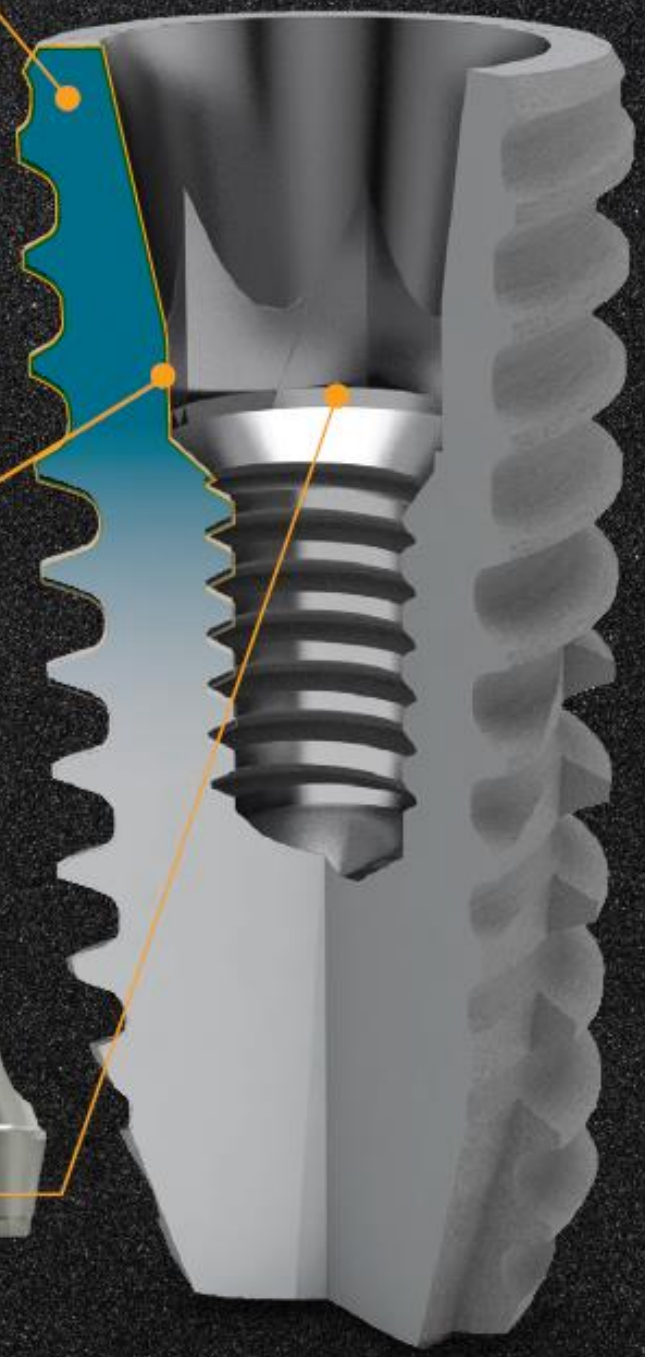
- About **11%** thicker than other products on superior area of fixture
- Reducing the thread depth in cervical area of fixture
- Grade 4 titanium features excellent resistance to corrosion and fatigue as well as high strength

Other SLA Fixture
(0.225mm)



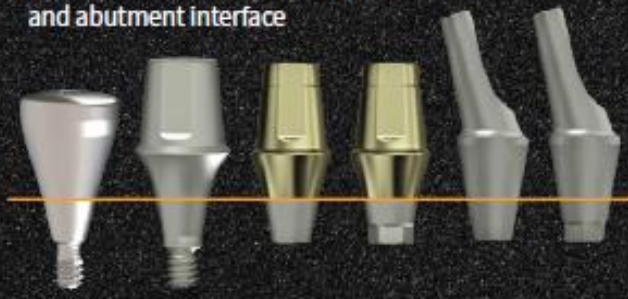
ADDplant ON Fixture
(0.25mm)

+ 11 %

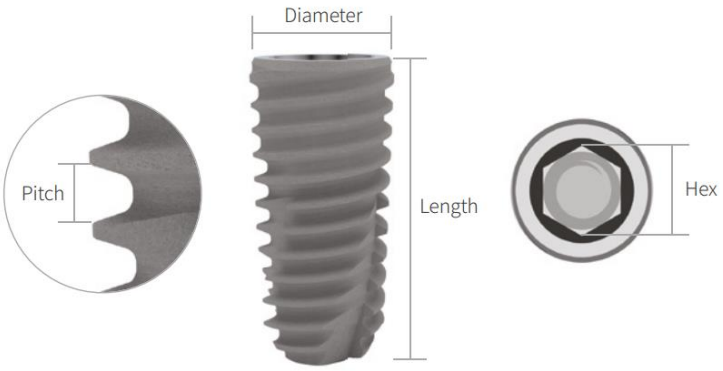


Internal conical connection

- Allow tight sealing between implant and abutment interface



Fixture

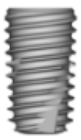


D Ø3.5	L		8.5 mm	10 mm	11.5 mm	13 mm
M Hex 2.1			ASM3508N	ASM3510N	ASM3511N	ASM3513N
Pitch 0.8						

D Ø4.0	L	7.0 mm	8.5 mm	10 mm	11.5 mm	13 mm
R Hex 2.5		ASR4007NS	ASR4008NS	ASR4010NS	ASR4011NS	ASR4013NS
Pitch 0.8						

D Ø4.5	L	7.0 mm	8.5 mm	10 mm	11.5 mm	13 mm
R Hex 2.5		ASR4507NS	ASR4508NS	ASR4510NS	ASR4511NS	ASR4513NS
Pitch 0.8						

D Ø5.0	L	7.0 mm	8.5 mm	10 mm	11.5 mm	13 mm
R Hex 2.5		ASR5007NS	ASR5008NS	ASR5010NS	ASR5011NS	ASR5013NS
Pitch 0.9						



D Ø5.5	L	7.0 mm	8.5 mm	10 mm	11.5 mm	13 mm
R Hex 2.5		ASR5507NS	ASR5508NS	ASR5510NS	ASR5511NS	ASR5513NS
Pitch 0.9						

D Ø6.0	L	7.0 mm	8.5 mm	10 mm	11.5 mm	13 mm
W Hex 2.5		ASW6007NS	ASW6008NS	ASW6010NS	ASW6011NS	ASW6013NS
Pitch 1.0						

D Ø7.0	L	7.0 mm	8.5 mm	10 mm	11.5 mm	13 mm
W Hex 2.5		ASW7007NS	ASW7008NS	ASW7010NS	ASW7011NS	ASW7013NS
Pitch 1.0						