

TISSUE LEVEL ST / AT IMPLANT DESIGN ADVANTAGES

SELF-REINFORCING

- Undergone the fatigue test and FEM analysis, the outcome shows the platform switching could bear large force and effectively distribute stress to avoid implant fracture or distortion.
Along with this research : It approved the self-strength function.

SELF-LOCKING

- Octagon 8° Morse taper connection with cold weld locking enhances the connection and stability between fixture and abutment to improve stability and prevents micro movement.
- Bio-sealing avoids micro leakage and intrusion of bacteria.

SELF-CONDENSING

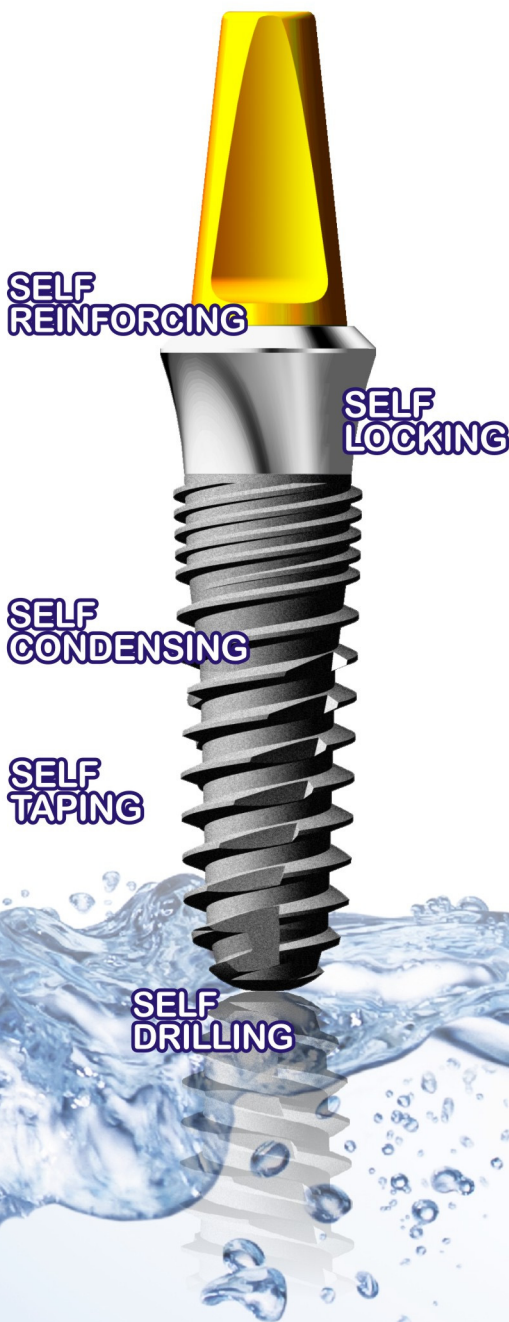
- The conjunction between micro - macro threads is tapered which effectively compacts and condense the crestal bone for increased initial stability.

SELF-TAPING

- The Macro threads design with different thread depth and thread form for self-tapping insertion increases Bone-to-Implant-Contact and initial stability.

SELF-DRILLING

- The wide tri-edging design with self-drilling capability to facilitate drilling protocols in areas of narrower osteotomy, reduces friction between fixture and bone and reduce the chance of bone necrosis due to overheating.



2012 National
Innovation Award .

TISSUE LEVEL SERIES



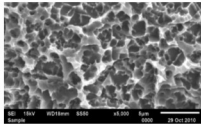
FEATURES

Smooth neck



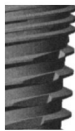
AT series implants have a smooth neck section of 1.8mm, 2.8mm, which are suitable for one stage implantation procedures, and offer the dental surgeon additional options that are particularly useful in the anterior tooth region of the maxilla, where esthetic demands are high. AT / ST series Implants are placed at soft tissues level and not covered with soft tissue during the healing phase.

Osseointegration



Implant surface treatment is using S.L.A. after specialized sandblasting, a high grade semi-conductor etching technique was used to increase the roughness of the surface and increase BIC. After S.L.A. plus hydrophilic treatment, a unique micro hydrophilic effect making adsorption of blood and protein an ease. (patent pending) With special S.L.A.-CP treatment, two surface treatments coating with phosphate and calcium improves initial BIC, shortens healing time. (US patent)

Thread design



AT series provides different depth of thread design to offer the dental surgeon additional options that are particularly useful in the poor or high density of bone with different demands of treatment. The additional options of thread design offer varies thread form and depth to effectively expand bone crest compacting, improve the primary stability, and making insertion an ease and easier to adjust angle of insertion when necessary.

Tri-cutting edging (For AT-II . III. ST series)



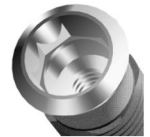
The tri-cutting edging provides self-cutting, self-tapping design cuts bone with minimizing the insult to the bone, prevents change of angle while inserting, reverse rotation after insertion. The design also reduces friction between fixture and bone and reduces the chance of bone necrosis due to overheating.

Platform switching



The way of connection between abutment and implant with a bio-width platform not only allows stress distribute away from implant but also create a platform to allow soft and hard tissues to attach on it. Bio-width platform switch is at least 0.1mm wide can increase soft tissue interface area and give aesthetics effect.

Octagon+8°Morse taper



The AT Octagon 8°Morse taper connection with mechanical self-locking function which enhances the connection between fixture and abutment; improves stability and prevents micro movement. Bio-sealing avoids micro leakage and intrusion of bacteria.

Biological groove (For AT-III series)



A depth of 0.1mm, 70° angle biological thread is provided in between the macro and micro thread, which provides space for bone graft and blood to reduce friction and temperature due to implant insertion. This design is also to advance bone regeneration with better outcome of osseointegration.

No-Mount design



The No-Mount design provides better capacity for higher insertion torque, which reduces the component damages due to implant insertion. Parallel ability is also provided for multiple implantation and full mouth edentulous implantation.

All listed accessories are compatible with AT-I / AT-II / AT-III / ST



CLOSURE SCREW SMALL



Type : NN / RN / WN
Platform : 4.1 / 4.8 / 6.5

CLOSURE SCREW LARGE



Type : NN / RN / WN
Platform : 4.1 / 4.8 / 6.5

HEALING CAP



Type : NN / RN / WN
Platform : 4.1 / 4.8 / 6.5

SOLID ABUTMENT



Type : NN / RN / WN
Platform : 4.1 / 4.8 / 6.5
H : 4 / 5.5 / 7

CEMENTABLE ABUTMENT



Type : NN / RN / WN
Platform : 4.1 / 4.8 / 6.5
H : 5.5

ANGLED ABUTMENT



Type : NN / RN / WN
Platform : 4.1 / 4.8 / 6.5
Degree : 15° / 20°

FIXTURE LAB ANALOG



Type : NN / RN / WN
Platform : 4.1 / 4.8 / 6.5

PROTECTIVE CAP



Type : NN / RN / WN
Platform : 4.1 / 4.8 / 6.5
H : 5.8 / 7.3 / 8.8

POSITIONING CYLINDER



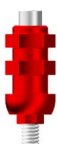
Type : NN / RN / WN
Platform : 4.1 / 4.8 / 6.5

IMPRESSION CAP



Type : NN / RN / WN
Platform : 4.1 / 4.8 / 6.5

IMPRESSION CAP SCREW-RETAINED



Type : NN / RN / WN
Platform : 4.1 / 4.8 / 6.5

SCREW RETAINED ABUTMENT



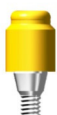
Type : NN / RN / WN
Platform : 4.1 / 4.8 / 6.5

GOLD COPING



Type : NN / RN / WN
Platform : 4.1 / 4.8 / 6.5

LOCATOR ABUTMENT



Type : NN / RN / WN
Platform : 4.1 / 4.8 / 6.5
H : 1 / 2 / 3 / 4 / 5 / 5

LOCATOR ANALOG



Type : NN / RN / WN
Platform : 4.1 / 4.8 / 6.5

SURGICAL KIT



PROSTHETIC KIT






AT SURGICAL KIT



1. Non-invasive one stage implants with the soft tissue on the upper end could prevent the bacterial invading.
2. To diminish the surgery operation, to shorten the healing time and to relieve the patient uncomfortableness.
3. Soft tissue implants contains a diameter 4.7mm platform which intensifying the bio-sealing width and overall strength.
4. Both narrow and standard abutments are compatible.
5. The internal connections are Morse Taper Octagon 8 degrees.
6. The packing designs are mount-free.
7. The implant design are both patent certificated in Taiwan and China.
8. The SLA-CP surface treatment is certificated in USA.



The comparable table of Anker AT Implant with LC and ITI

Feature	Anker™ AT series ST series		LC 	ITI 
Material	Pure grade 4 titanium(special cold working) (grade 4 titanium bio-compatibility with the grade 5 strength)	○	○	○
Tip Micro thread design (ST series)	Deeper micro thread, increases BIC and improves primary stability	○	X	X
Internal connection: 8° Morse taper + Octagon	Bio-Sealing, reduce micromovement and avoid rotation Narrow Standard	○	Narrow external connection	Narrow Internal connection
Compatible: Prosthetic components and surgical instruments	Compatible with LC and ITI (Narrow / Standard)	○	○	○
Color identification code	Easy identification	○	○	○
S.L.A surface treatment	Enhanced S.L.A , with hydrophilic property	○	RBM	○
No mount design	Easy to handle	○	○	X
Platform switch	Avoids bacteria penetration, and improves biomechanical function	○	○	○
Extrusion thread design	Distributes force , expands bone function improves bone density	○	X	X
Macro thread design {self-drilling, self-tapping, self-strength, self-condensing}	Deeper thread/pitch/thread form with patented taper pipe thread, increases BIC, improves primary stability	○	○	○
Tri-edging design (ATII/ ATIII/ ST)	Great drilling function reduces friction between fixture and bone	○	—	X
Perfect apex blunt design	Prevents accidental damage to the sinus floor or alveolar canal and the structures within	○	○	○



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