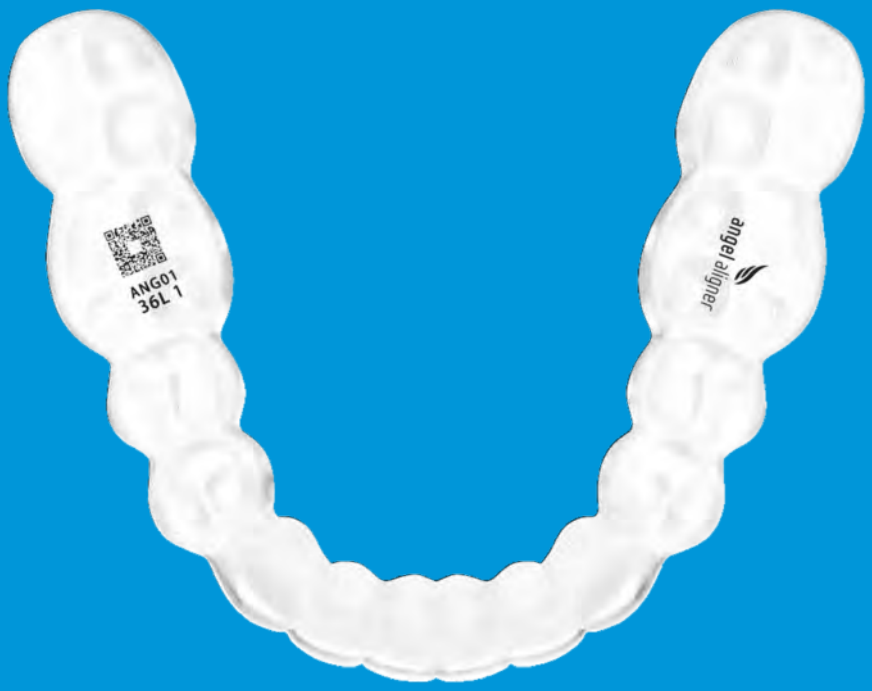
angel aligner

Join the Smile Evolution



smile like an angel

Product Brochure

www.angelaligner.com

Over **1 Million** Cases*

Angelalign Technology Inc. is a leading global provider of clear aligner technology and evidence-based clinical expertise. With over 20 years of experience and a commitment to research and digital innovation, we've treated over 1 million cases, and are expanding our global footprint into Europe, the United States and Asia Pacific.

Since 2003, we have maintained a productive and scientific collaboration with orthodontists and universities around the world, enabling us to build large databases of complex orthodontic cases.

Our state-of-the-art research & development and custom production facilities are globally positioned to bring fresh perspective and technological advancements to clear aligner manufacturing and customer service.

Our experienced team of technicians has over 3.5 years of tenure – orthodontically attune to precision case designs with specialized knowledge in complex malocclusions. They're ready to support your treatment planning needs with the high quality case designs and turnaround times.

We deliver a simple approach, innovative products and tools, and experienced customer support to continuously push the edge of technology, product development and service to better serve orthodontic professionals and ultimately, your patients.

Our Story

2003
Co-developed the 1st clear aligner treatment solution Angelalign was founded in China

2006
Angel Aligner approved by CFDA and commenced commercialization of clear aligners

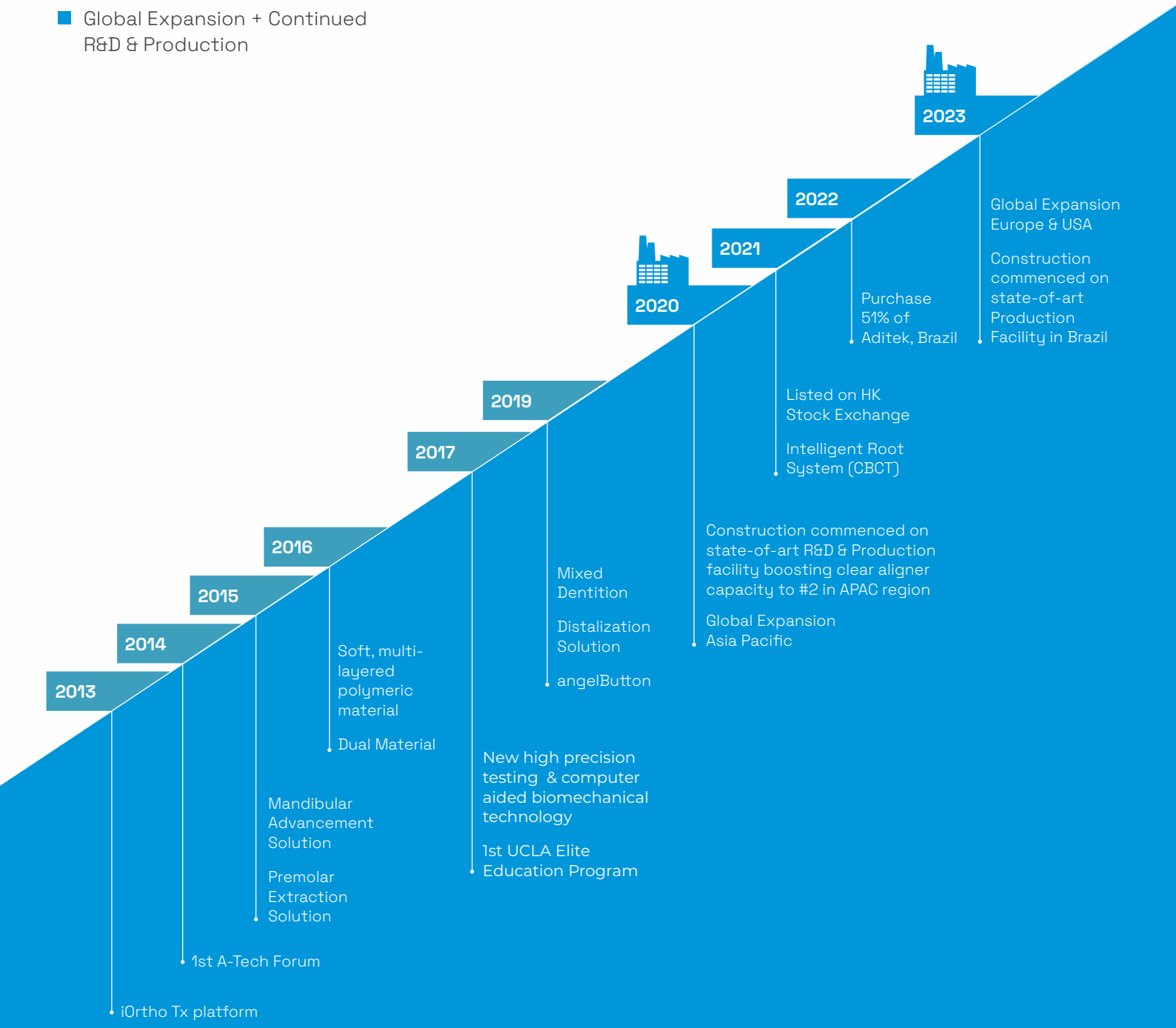
2007
Built the 1st 3D printing production for clear aligners in China

2011
Applied 3D printing technology to mass standardized production

* As of June 30, 2023, the total number of cases of any and all the products and services provided by all entities owned or controlled by Angelalign Technology Inc. has exceeded one million."

20+ Years of Healthy Smiles and Superior Aligner Technology

- Foundation of Angelalign Technology Inc.
- New Technology Launches
- R&D, Production & Market Expansion
- Global Expansion + Continued R&D & Production



Product System

Select

- Select is a series of custom-made removable clear orthodontic aligners that gently move the patient's teeth into the proper position over time.
- After over-20-years-of product development, it has been transforming smiles for over one million patients.
- MasterControl S (MCS) is a next-generation multi-layer polymer material with gentle but long-lasting orthodontic force for more efficient tooth movement. MCS exhibits enhanced tear & stain resistance, mechanical stability and patient preferred clarity.
- Select has several treatment options available for different clinical situations.

Select 10 **Select 20** **Select 30** **Select Unlimited**

Pro

- Pro uses innovative masterMulti technology and is an efficient clear aligner treatment option that gently moves the patient's teeth into the proper position over time.
- Intelligent digital orthodontics and material science define precise tooth movements. The MasterControl material has significantly improved from previous versions stain and fracture resistance. It is designed to perform well with complicated tooth movements and to help doctors accurately treat challenging cases.
- Each stage has two sets of aligners. The first-set aligners made from masterControlS are worn for 7 days, and the other set for the next 3 days is produced from masterControl.
- The "7+3" mode shall be repeated in each stage until treatment is completed when teeth are aligned.
- The "7+3" dual aligner solution can decrease the length of your treatment and improve treatment efficiency, especially for complicated cases.

Kids

- Solution for mixed dentition treatment with facial management and malocclusion prevention.
- "Teeth-Bones-Muscles" Three-in-One Solution for Kids in Tooth Transition Period.
- Aligner in combination with functional appliances.
- Several treatment options available.

K1 **K2**

angel aligner

Material

masterControl S

masterControl

Solution

A6 Mandibular Advancement Solution

A7 Premolar Extraction Solution

A8 Molar Distalization Solution

Clinical Features

angelButton

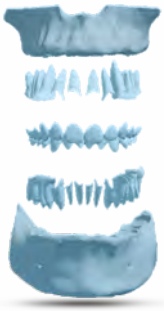
angelAttach

IRS Intelligent Root System

ICS Intelligent Ceph System

Innovative.
Advanced.
Intuitive.

IRS Intelligent Root System



1 True Visualization of Root Jaw Morphology

Accurately produces, rather than simulates, the morphology of your patient's root, jaw and aveolar bone via CBCT data at a ratio of 1:1.

2 True Analysis of Crown-Root Data

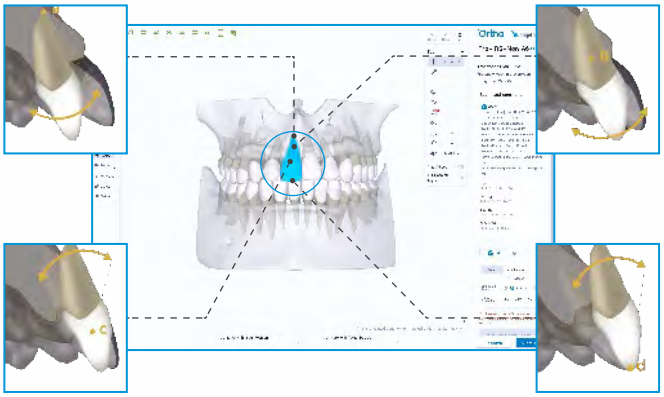
Provides you with a set of crown data and two sets of root data for a more precise view of root positions.

3 True Modification of Root Design

In clinical practice, doctors are enabled to modify the root and aveolar relationship, and root arrangement through the 3D Tooth Adjustment (ADJ).

Crown movement without root apex movement, controlled tipping movement of crown.

Opposite movement of crown and root, with crown movement greater than root, purely tipping movement.



Opposite movement of crown and root, with root movement greater than crown.

Root movement without incisal crown movement, controlling root movement.

iOrtho

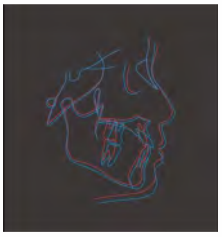
iOrtho is a secure cloud-based service platform housing patient management data for Angel Aligner treatments. The treatment planning software has user-friendly 3D controls allowing doctors to customize and review Angel Aligner case designs.

ICS Intelligent Ceph System

- Automatic recognition of anatomical landmarks
- Automatic recognition of contours and auxiliary points
- Automatically identify the ruler and calculate the magnification
- Edit and adjust landmark point
- View measurement report
- Built-in a variety of mainstream measurement methods
- One-click export of measurement data

Tracing based on AI

Superimposition



Skeletal age analysis based on AI

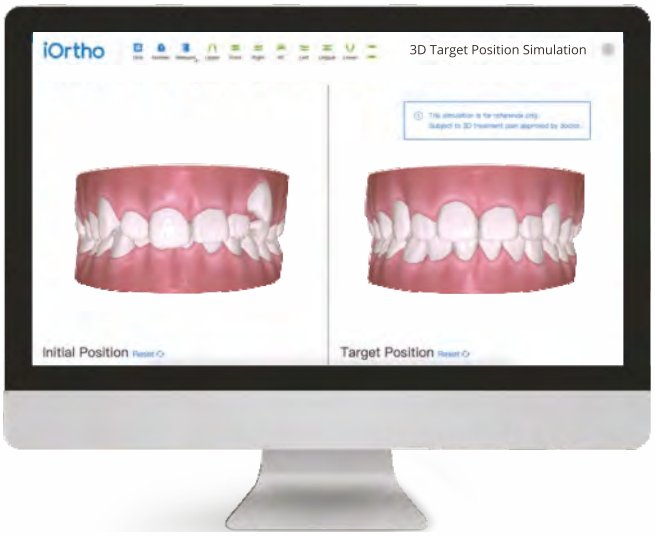
Visual Treatment Objective

Make it

INSTANT ORTHODONTIC OUTCOME

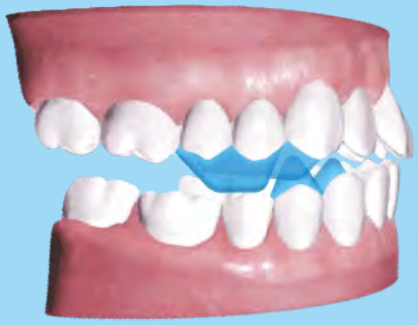
Intelligent Digital Orthodontic System - Instant Bright Smiles

The "Make it" feature of the iOrtho system is developed based on the massive orthodontic database of Angel aligner, which quickly presents simulated orthodontic treatment results, making the doctor-patient communication more intuitive and efficient.



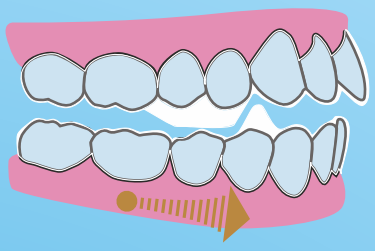
A6 Mandibular Advancement

With the orthopedic and orthodontic treatment of prognathism malocclusion caused by mandibular retrusion as a breakthrough, this solution allows for growth modification and tooth alignment at the same time. The malposed teeth are corrected and aligned while bite opening with occlusal blocks. The combination of phase I and phase II into one facilitates the orthodontic efficiency and potentially shortens treatment time. It is also more comfortable for the patient than traditional functional appliances.



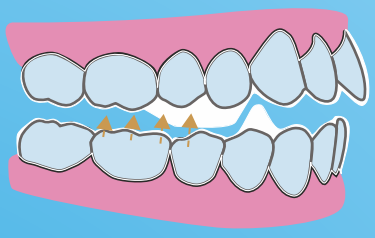
1 Bite Opening For Mandibular Advancement

With Angel Aligner A6 mandibular advancement solution, bite opening is realized by shaping a occlusal blocks at the orthodontic appliance of posterior teeth. The mandible is kept forward to the advanced position through occlusal inclined planes between the maxillary and mandibular occlusal block, and a normal posterior occlusion is formed gradually, thus guiding the mandible forward to the correct position.



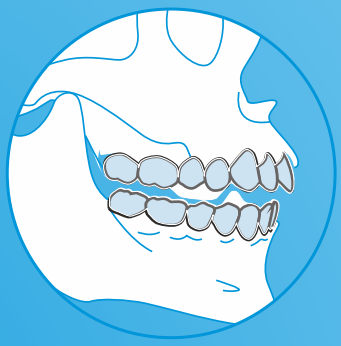
2 Simplified Operation By Software Design

The morphology of the occlusal block is automatically coordinated according to the vertical height and the occlusion throughout treatment staging. Hence, the treatment process is simplified without any chairside adjustment to the occlusal splint.



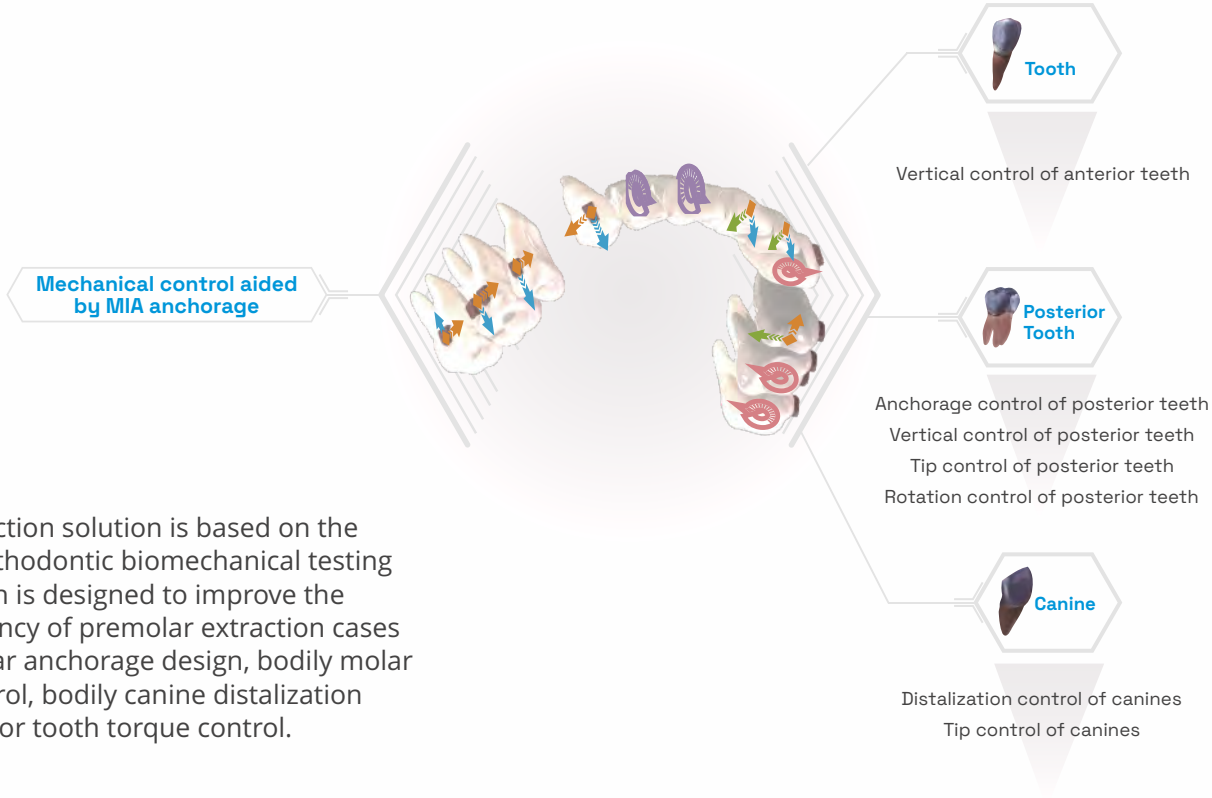
3 Combine Two Orthodontic Phases Into One

Traditional functional orthodontics include two stages: jaw orthopedics at phase I and correction of tooth and occlusal problems at phase II. Angel Aligner A6 Mandibular Advancement Solution combines the two orthodontic phases into one, which corrects and aligns the malposed teeth and adjusts the occlusal relationship simultaneously, thus improving the orthodontic efficiency, and possibly shortening the orthodontic duration.



A7 Premolar Extraction

A7 premolar extraction solution is based on the analysis and clinical validation by masterForce platform and the treatment of hundreds of thousands of extraction cases with Angel Aligner. After years of experience treating complex extraction cases, A7 is designed to optimize the accuracy and precision of tooth movements in extraction cases.



A7 premolar extraction solution is based on the comprehensive orthodontic biomechanical testing and analysis, which is designed to improve the orthodontic efficiency of premolar extraction cases by optimizing molar anchorage design, bodily molar mesialization control, bodily canine distalization control, and anterior tooth torque control.

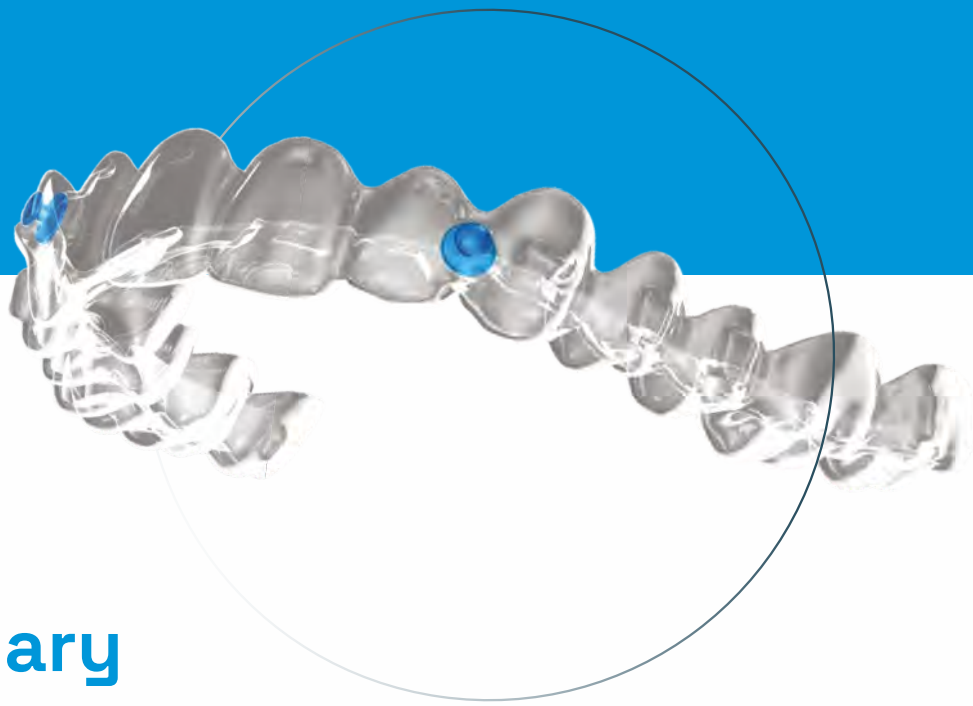
A8 Molar Distalization

To optimize control of molar distalization, the A8 molar distalization solution combines the precise calculation of the masterForce platform, the sequential tooth movement of masterControl materials, and the angelButton attachment.

About A8 Solution

Angel Aligner has tested and analyzed high numbers of samples of molar distalization through our masterForce orthodontic biomechanical simulation system. By establishing sequential distalization, the supporting attachment system, and a proper elastic system, Angel Aligner has developped the A8 molar distalization solution that makes molar distalization more accurate and predictable.

angelButton



New Evolutionary Smile Technology

Benefit from Angelalign Technology's commitment to continuous innovation in the key areas of material science, biomechanics and AI with proprietary features no other aligner offers.

1 Integrated Structure

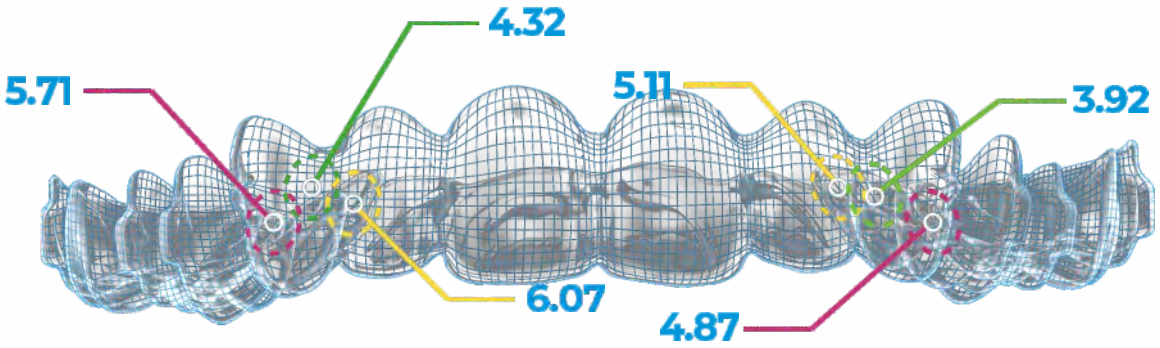
Enhance patient care and reduce chair time with angelButtons. Manufactured as part of the aligner, the angelButton resists aligner deformation that can occur with elastic cuts.

2 Flexible 360° Placement of Elastics

The flexible position of the angelButton opens up a wide range of uses for intra-oral elastics not achievable with hooks.

3 AI Precise Positioning

angelButtons use AI-based precise positioning and structural optimization algorithm to prevent weakening regions and make elastic use more reliable.



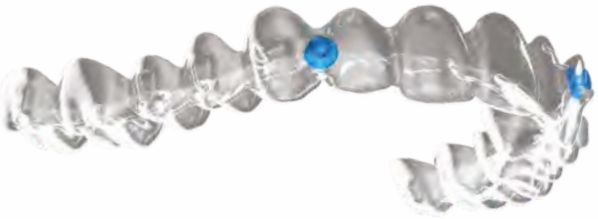
Intramaxillary Arch Constraction

Traction of Malposed Tooth

Short Class II Elastics

Vertical Elastics

Traction of Impacted Tooth



Criss-cross Elastics to Coordinate The Width of Dental Arch

Anterior Teeth Retraction with Micro-implant

Class II Elastics

Box Elastics of Anterior Teeth

angelButton

INFINITE IMAGINATION OF FUTURE APPLICATIONS

Traction to Correct Rotation

Anterior Diagonal Elastics

Suspended Traction to Extrude Individual Teeth

Intrusion of Anterior Teeth with Implants

Class III Elastics

angelAttach

Angel Attachment System

AngelAttach, the Angel Attachment System, is a revolutionary attachment system validation and optimized by the Angel Aligner master Force platform. There are two types of attachments, conventional attachments that are bonding to the teeth and aligner pressure points designed and manufactured using our unique and advanced manufacturing technology. Combining biomechanics, material science and mechanics, the position and morphology of our attachments are designed to achieve better force expression and a more effective and precise control of tooth movement with clear aligners. In addition Angel Aligner allows the use of other auxiliary tools such as elastics, TADs and segmental archwires with our unique innovations.

Attachments

Conventional Attachments

Rectangular -Horizontal Attachment

Function: Assists with tooth angulation correction, root & bodily movement and anti-tipping control;

Teeth: Canines, premolars and molars;

Rectangular -Vertical Attachment

Function: Assists with tooth angulation correction, root & bodily movement and anti-tipping control;

Teeth: Canines, premolars and molars;

Retention Attachment

Function: Assists with retention, extrusion, and intrusion when placed on the anchor teeth;

Teeth: Canines, premolars and molars;

Rotation Attachment

Function: Assists with derotation;

Teeth: Incisors and canines;

Extrusion Attachment

Function: Assists with extrusion;

Teeth: Incisors and canines;

Rotation -Extrusion Attachment

Function: Assists with derotation and extrusion; and can also provide derotation and anchorage for anterior tooth intrusion;

Teeth: Canines and premolars;

Precision Attachments

Precision Root Control Attachment

Function: Optimized angulation correction, root control, bodily movement and anti-tipping;

Teeth: Canines, premolars and molars;

Precision Tipping Control Attachment

Function: Optimized angulation correction, root control, bodily movement and anti-tipping;

Teeth: Incisors;

Precision Rotation Attachment

Function: Optimized derotation or rotation+extrusion, optimized derotation and anchorage for anterior tooth intrusion;

Teeth: Canines and premolars;

Pressure Ridges

Torque Ridge

Function: Provides lingual translation (via lingual root torque) and torque control of anterior teeth;

Teeth: Incisors;

Intrusion Ridge

Function: Faciliates incisal intrusion, while controlling lingual tipping;

Teeth: Incisors;

Rotation Ridge

Function: Addresses minor rotation of incisors;

Teeth: Incisors;

Features

Pontic

Function: A temporary tooth shaped structure in an aligner to replace a missing tooth during treatment;

Teeth: All;

Elastic Cut

Function: Indicates where an elastic (traction) hook will be added;

Teeth: All;

Button Cutout

Function: Indicates the cutout area of the aligner where a button can be bonded directly to a tooth;

Teeth: All;

Bracket Cutout

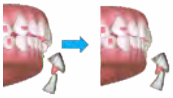
Function: Indicates the cutout area of the aligner where a bracket can be bonded directly to a tooth;

Teeth: All;

Bite Turbo

Function: Assists in anterior tooth intrusion/bite opening, also known as Bite Ramps;

Teeth: Incisors and canines;



Curve Turbo

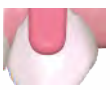
Function: Actively advances the mandible in small amounts (less than 3mm) while opening the bite. Also serves to maintain the mandible position after mandibular advancement;

Teeth: Incisors;

A6 Occlusal Block

Function: Assists in mandibular advancement and maintains maxillary position;

Teeth: Canines, premolars and molars;



Power-Arm

Function: An attachment assisting a long-armed traction hook;

Teeth: Canines, premolars and molars;

Occlusal Pad

Function: Assists in crossbite and deepbite correction, also known as Bite Turbo;

Teeth: Premolars and molars;

Eruption Guide

Function: A temporary tooth shaped structure created into the aligner that accomdates for the natural eruption of teeth;

Teeth: All;

angelButton

Function: Provides an additional anchorage point manufactured directly into the aligner to support the use of elastics;

Teeth: All;

Treatment guide

Angel Aligner Product System					
Product System Aligner per Arch	**Select 10** Up to 10 Stages	**Select 20** Up to 20 Stages	**Select 30** Up to 30 Stages	**Select Unlimited** Unlimited	**Pro** Unlimited
Treatment Expiration Date	1 Year	3 Years	3 Years	5 Years	6 Years
Refinement within expiration date	1	2	3	Unlimited	Unlimited
Retainer	1	1	1	1	3
Indication	1. Very Minor Crowding and Spacing 2. Minor Orthodontic Relapse 3. Aesthetic Improvements 4. Partial Treatment	1. Smile Improvements 2. Minor Crowding and Spacing 3. Aesthetic Treatment (Veneer Restoration) 4. Simple Corrections 5. Pre-restorative 6. Partial or Combination Treatment	1. Mild to Moderate AP 2. Crowding, Spacing and Vertical Discrepancies 3. Pre-restorative 4. Presurgical Treatment	Complex Cases	Complex Cases
Additional Clinical Features	Attachments, Elastic Cut, Button Cutout, Bracket Cutout, Eruption Guidance, Pontic, Bite Turbo, Curve Turbo, Occlusal Pad, Power Arm, Torque Ridge, Intrusion Ridge, Rotational Ridge, AngelButton, IRS, ICS				

angel aligner

angel aligner KiD

Angel Aligner Kid Product System		
Product System	**K1**	**K2**
Treatment Expiration Date	2 Years	5 Years
Refinements	Unlimited within 2 years	Unlimited within 5 years
Dentition	Primary/Mixed Dentition	Permanent Dentition
Indication	Suitable for mild-moderate dental and myofunctional malocclusion	Suitable for moderate-severe dental and myofunctional malocclusion
Additional Clinical Features	Tongue position guide, Tongue crib, Bite Ramp, inclined Bite Ramp, A6 Mandibular Advancement, Maxillary Protraction with angelButton	

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AAPB.Rev.1