



C Thru

HUDSON
Incligner

Swift
Straight Teeth

QuickSmile

Guard-X

Making Dream Smiles Come True

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Welcome to ArchformByte: Where Innovation Meets Exceptional Clinician and Patient Care

At ArchformByte, we believe every smile is as unique as the individual behind it. As a leading UK-based orthodontic laboratory, we specialize in creating bespoke orthodontic solutions tailored to each patient's needs. From CThru clear aligners to a wide range of custom-made appliances, our expertise lies in delivering precision, comfort, and excellence.

Fully embracing the latest digital technologies, we accept .stl scan files from all leading intraoral scanner brands, ensuring a seamless experience for dental professionals. Our team combines years of expertise with a commitment to patient-centered care, helping you deliver world-class smiles with confidence.

Our mission is to deliver unparalleled quality, exceptional customer service, and outstanding value to clinicians and their patients.

Proudly made in Great Britain, all our appliances seamlessly integrate into any practice, elevating patient care to new heights.

As a full-service digital orthodontic laboratory, we are committed to sustainability, utilizing environmentally friendly and recyclable materials

in every appliance we create. Crafted with precision and care by highly skilled UK-based technicians, our products reflect our dedication to excellence.

We pride ourselves on offering a highly personal, bespoke service, including an online portal and dedicated telephone support. This ensures you can easily connect with our skilled technicians at your convenience to discuss individual patient cases and tailor solutions to meet specific needs.

To discover more visit: archformbyte.com or reach out to discuss how we can help create even more world class smiles.

**Call us: +44 (0) 114 243 5400 option 1
or email: hello@archformbyte.com**

Or we'd love to welcome you for a visit!

Choose ArchformByte – where personal service meets cutting-edge orthodontics.



CThru Clear Aligners: Gentle, Sustainable, and Effective



Scan here to
find out more



CThru aligners gently realign teeth, giving your patients the smile they've always wanted. Made from lightweight, recyclable plastic, CThru aligners apply precise, gentle pressure to gradually guide teeth into their ideal positions.

Integrating CThru into your practice is effortless—no restrictive contracts or costly training courses. To experience the ease of CThru, book a complimentary "Lunch & Learn" session with a free CPD hour. Simply email us at hello@archformbyte.com or call +44 (0)114 243 5400 (Option 1).

CThru has already transformed thousands of smiles, empowering patients with renewed confidence. Through our CThru Club, practices can offer this life-changing treatment with ease. Manufactured in our state-of-the-art facility in Sheffield, UK, CThru aligners are locally made, minimising air miles and supporting sustainable care. Make CThru part of your practice's future. Request a free copy of the CThru Clinical Guidelines or download it from archformbyte.com. Together, let's make confident smiles more accessible.

CThru



The CThru process is so simple, it's enough to make you smile

With CThru aligners, getting started is simple and streamlined:

- **Submit:** Send us your .STL scans, impressions, or models, and let us know your goals for the patient.
- **Access:** We'll provide an online login so you can track cases, communicate with technicians, and manage each case easily.
- **Review:** We conduct a CThru Review based on your specifications, providing treatment options, pre-and post-images animations, and, if needed, an IPR Chart or attachment template.
- **Approve:** Once you approve, we manufacture the CThru aligners and deliver them within 5-10 working days.
- **Bespoke & Personal:** This approach ensures a smooth, collaborative experience, helping you deliver high-quality results for your patients.

For results and for more information visit:
CThruSmiles.com





The CThru Club



Join the CThru Club

Joining the CThru Club offers an array of benefits designed to support and grow your practice:

- **Patient Referrals:** Receive direct patient referrals from our dedicated patient CThruSmiles patient website CThruSmiles.com.
- **Practice Promotion:** Your practice details are showcased on the CThruSmiles website, helping local patients find you.
- **Point-of-Sale Materials:** Get quality promotional materials, including sample CThru aligner boxes, posters, and more for your practice.
- **Team Training & Support:** Comprehensive and ongoing promotional support for your entire practice team.

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find out more



- **Secure Case Management:** Use the ArchformByte portal to upload photos, prescriptions, and track progress securely. All data is stored in the UK.
- **Comprehensive Case Options:** We accept scans from any intraoral scanner, alginate impressions, or physical models.

As a CThru Club member, you'll also receive a luxury whitening kit and retainers for every case, ensuring an enhanced experience for your patients.

Join the CThru Club
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archformbyte.com





Aligners reinvented: Smart memory, enhanced precision, predictability and control

The Next Generation of Clear Aligners

CThru Elite is the first directly 3D-printed aligner system designed with shape-memory material and smart thickness control.

That means:

- **For clinicians:** more predictable, more efficient treatments with enhanced precision.
- **For patients:** fewer attachments, more comfort, and aligners that refresh themselves for faster outcomes

Shape-Memory Material

- Unlike thermoformed aligners that lose force within days, CThru Elite aligners can be placed in hot water to restore their original shape and force.
- More consistent tooth movement, fewer refinements.

Direct 3D Printing

- Digital precision allows variable thickness across zones.
- Target movements with biomechanics tailored to each tooth.
- Minimises or eliminates the need for attachments.

Clinical Advantages

- Reduced chair time and refinements.
- Enhanced predictability and control.
- An innovation that sets your practice apart.

Smarter. Stronger. CThru.

CThru Elite isn't just another aligner.

It's a leap forward in orthodontic science — giving clinicians more control and patients more comfort.



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find out more



Hudson InClinger: Enhanced Efficiency and Comfort in Orthodontic Treatment

The Hudson InClinger offers seamless integration at any stage of the CThru aligner treatment, aligning teeth simultaneously for faster results. Its unique design incorporates a functional element directly on the CThru aligner, effectively reducing treatment time.

Key Benefits:

- **Versatile Functionality.** Use the Hudson InClinger as part of CThru treatment or as a standalone functional appliance.
- **Enhanced Aesthetics:** More visually appealing than traditional functional appliances, ensuring over 60% improved patient compliance.
- **Patient Comfort:** With no acrylic palate coverage, the Hudson InClinger is more comfortable and has minimal impact on speech, allowing for natural tongue movement.
- **Added Security:** Each patient receives two sets of appliances to ensure continuous wear in case of loss or breakage.



Swift Straight Teeth

A bespoke service for you and your patients

- Reduce chair-side time taken for bonding brackets using Swift Straight Teeth. Treat more patients, increase your revenues.
- Simply send your patient's scan, models or impressions.
- We will create the Swift Straight Teeth Tray with the brackets preloaded.
- We also include, a patient specific kit including sequential archwires, ligatures and elastomeric chain to your specification on request.



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find out more



Removable Appliances



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Barrer

This appliance is used for minor tooth movements and can be used on the final retainer. **Note:** The palatal and lingual arches are acrylicated.



ELSA

Often used in Class II Div ii cases for the proclination of central incisors. **Note:** Optional mid line screw and occlusal rests on molar teeth.



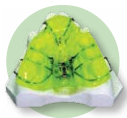
Upper Removable

Showing a Roberts Retractor.



Upper Removable

Showing reverse loop canine retractor. As the canine is retracted the arm is shortened and reattached to the canine.



Upper Segmental Screw

With a Z spring for in-standing lateral incisors. **Note:** The posterior capping.



ELSA

The mid line expansion screw and the occlusal rests to reduce over eruption, whilst the palatal and labial arches align the anterior segment.



Upper Removable

Buccal canine retractor 0.6mm wire supported in a tube. **Note:** The Southend Clasp on the upper centrals.



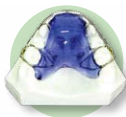
Upper Removable

Retained by molar cribs and ball clasps with Z springs to procline upper laterals.



ELSA

This is a multi-purpose appliance. Using a midline screw and adequate fixation with anterior recurved palatal springs and labial bow and flat bit plane.



Upper Removable

With palatal canine retractors, labial bow soldered to molar cribs with flat anterior bite plane.



Hawley Retainer Plus

With self straightening wires for space closure.



Coffin Spring

This appliance can be used for individual movement of the buccal segments. **Note:** Optional EOT tubes on this appliance.



Coffin Spring

Used for bi-lateral expansion.

Note: The occlusal cover and the Adams cribs supporting two half Adams cribs.



Upper Removable Fitted Retainer

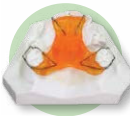
This is often used as a support stage following Twin Block therapy. **Note:** The fitted arch and the inclined anterior bite plane.



Begg Retainer

Made from 0.9mm wire.

Note: The close fitting on the second molar.



Removable Space Maintainer

Often used where deciduous teeth have been lost.



Hawley Retainer - Reverse Loop

Showing archwire soldered to molar crib and reverse loops in arch.



Fan Screw

This appliance allows buccal movement of the anterior segment with minimal movement of the 1st and 2nd molar segments when the screw is activated.



Hawley Retainer

Showing an acrylated archwire, used where there have been anterior rotations.



Lower Removable

With twin screws to upright and align lower first molars or second molars.

Note: The anterior retention - 2 ball clasps.



Upper Bite Plane

Showing the construction of the Plinth clasp. Used in conjunction with a fixed appliance.



Pendulum

This appliance is used for distalising upper first molars using TMA wire into horizontal tubes on the molar bands. The remainder of the appliance is completely removable with a mid line expansion screw and cribs on the premolars. An anterior bite plane can be used in these cases.



Habit Breaker

Used to prevent digit sucking and sometimes to reduce tongue thrusting habits.



Three Way Expansion Screw

Usually used to gain space for excluded canines or anterior teeth.

Fixed Appliances



MIA Quad Helix

Fitted into horizontal lingual tubes on the molar bands.



Lower Lingual Arch

Used to maintain space and increase the anchorage in Class II cases.



Upper Fixed

Incorporating a removable flat anterior bite plane using Plinth clasps over the buccal tubes.



Fixed Habit Breaker

Soldered to molar band.



Fixed Rapid Maxillary Expansion Screw

Note: Second pre molar as a 0.8mm contact wire on each side.



Upper Fixed

With Nance button.



Fixed Lingual

Using a small screw to increase the lower inter canine width.



Upper Fixed (Riconator)

With a bite plane and auxiliary springs to pre molars.



Fixed Transpalatal Arch

Used to increase anchorage.



Fan Type Fixed Expansion



Upper Fixed

With Nance button and inclined bite plane relieved behind.



Bonded Lingual Retainer

Bonded to lower canines. **Note:** alternative option twistflex archwire can be bonded to each tooth. This can be done using a silicone matrix for accurate placement.



Fixed Rapid Maxillary Expansion Screw



Standard Fixed Transpalatal Arch

Soldered to molar bands.
Note: the clearance from the soft tissue.

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Exactobytes

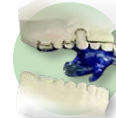


Get the bite opening correctly every time.
Exactobytes available in 2mm or 4mm opening.

Functional Appliances



Twin Block
Standard Class II Div ii Twin Block.



Medium Opening Activator
For treating Class II with large overbite and overjet.



COFF
Lateral view of a COFF appliance. Removable, fixed functional, only removable by the clinician.



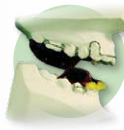
Hudson InClinger System
Digital Functional Appliance.



COFF
Offset Front View.
Note: The acrylic is extended onto the lower canines.



Acrylic Colours
Appliance showing only a few of the acrylic colours available. Any single colour is available at no extra charge.

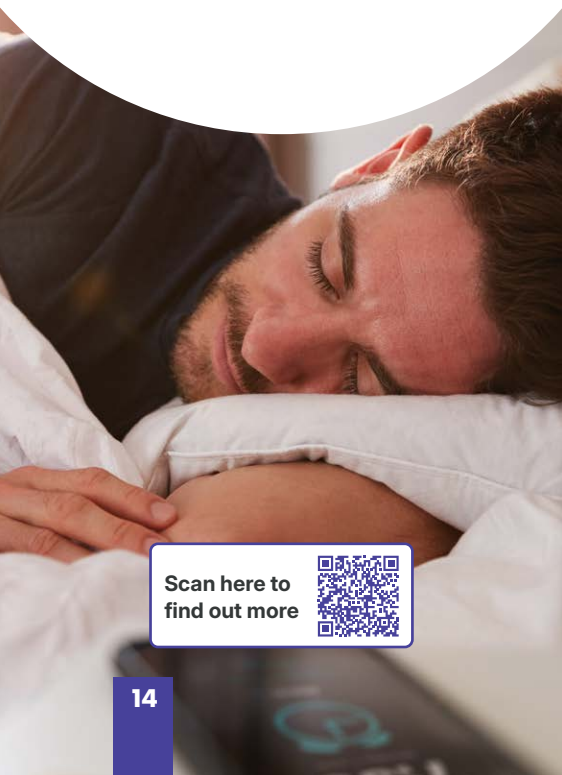


Twin Block Class II Div i
Suitable for small overjet cases.

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Splints & Anti Snoring



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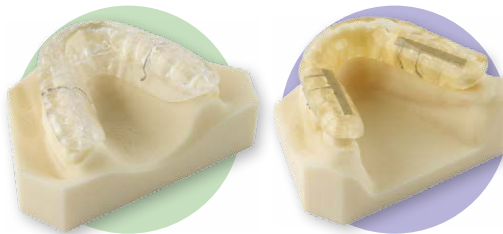


Michigan & Tanner

The Michigan and Tanner splints are used in the treatment of the Temporomandibular joint (TMJ) and to control bruxism. These full coverage splints are constructed in a dual laminate material for maximised comfort and rigidity. Occlusal contacts are achieved between the working cusps of the all the teeth with canine and protrusive guidance. The Michigan splint is constructed on the upper arch, while the Tanner splint is constructed on the lower arch.

Garcia appliance

A Garcia appliance is primarily used to correct skeletal discrepancies in the jaw, particularly Class II malocclusions. It is designed to address issues where the upper jaw (maxilla) is positioned too far forward in relation to the lower jaw (mandible), resulting in a misalignment of the bite. The Garcia appliance typically works by promoting the forward growth of the lower jaw while restraining the growth of the upper jaw. This encourages proper alignment and improves



the overall function and appearance of the teeth and jaws. It is often used in growing children and adolescents, as it can guide growth effectively during developmental stages.

Due to the nature of this appliance, it can also be used as an anti snoring appliance with a slight modification to the design.

Herbst

A Herbst appliance is an orthodontic device designed to correct Class II malocclusions, specifically where the upper teeth or jaw are too far forward in relation to the lower teeth or jaw (often referred to as an overbite or retrognathic mandible). Unlike traditional braces, the Herbst appliance works primarily to align the jaws, rather than just straighten teeth.

Silensor Anti Snoring Appliance & Kit



Kit contains various lengths of support arms & extra studs.

Orthopaedic Appliances



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3D Schwarz

Primarily for 3-dimensional arch expansion. It is designed to create space in the dental arch by gently widening it over time. This helps to correct issues like crowding, narrow arches, or misaligned teeth.

Schwarz fan screw

This screw is designed to expand the anterior (front) portion of the dental arch, typically the front teeth or canine-to-canine area, rather than the entire arch.

Williams

The Williams device is used to treat patients with Class II malocclusion, specifically focusing on the alignment of the mandible (lower jaw). It is designed to promote the forward positioning of the lower jaw, improving the relationship between the upper and lower teeth and jaws. The appliance primarily helps patients with overbites or retrognathic mandibles (where the lower jaw is set back in comparison to the upper jaw).

Bionator

The Bionator appliance is a removable orthodontic device used primarily to treat Class II malocclusion (overbites) by guiding the growth and development of the jaws, teeth, and facial muscles. It is considered a functional appliance because it works by altering the function of the oral and facial muscles to correct jaw alignment issues.

Bionator to Open Bite: Used to open the bite in cases where the posterior teeth touch but the anterior teeth do not, creating an open bite. It guides the vertical movement of teeth and jaw closure.

Bionator to Close Bite: Designed to treat a deep bite (where the upper anterior teeth excessively overlap the lower teeth), this appliance helps reduce the overlap by guiding the lower jaw forward.

RN Sagittal

The RN Sagittal Appliance is an orthodontic device used to create anterior-posterior (front-to-back) expansion of the dental arches. It is primarily employed to address crowding of teeth or other space-related issues in the upper or lower jaw.

A.L.F – Advanced Lightwire Functional

Advanced Lightwire Functional appliance is an orthodontic and functional device designed to promote natural alignment of the teeth and jaws, improve cranial bone alignment, and support proper facial development. It is a lightwire appliance, meaning it uses very gentle, flexible forces to achieve results, compared to more rigid traditional orthodontic appliances like braces. The appliance is typically fixed but can be easily adjusted by the orthodontist during treatment. The A.L.F. appliance is often discreet and less noticeable than traditional braces.

Retainers



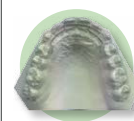
Retainers can be created from a scan with brackets. Simply remove the archwire and our wizard technicians can virtually debond the brackets and make the retainer of your choice.



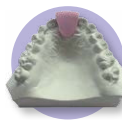
Hawley Plus



TruTain



Manchester



**Twist-Flex
with Positioning
Matrix**



**Bonded
Lingual**

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CThru

Luxury Whitening Kit

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The CThru Lumi Luxe Kit guarantees a B1 shade. The kit contains 5 × 3ml Lumiwhite By Night (16% Carbamide Peroxide) teeth whitening syringes.

CThru Club members receive a complimentary whitening kit with each case!



Composite Bonding System



Our Quick Smile Composite Bonding System is designed to streamline your workflow while providing exceptional patient satisfaction. By integrating advanced digital dentistry, we eliminate unnecessary steps and ensure a seamless experience from initial consultation to the final restoration.

Key Benefits of Quick Smile:

- **Predictable Outcomes:** Visualise and approve the final look before treatment with our QuickSmile View, ensuring patient satisfaction and precise restorations.
- **Seamless Workflow:** Send your scans or impressions easily, and let us handle the design and 3D printing of the stent.
- **Reduced Chairside Time:** Achieve efficient results with a streamlined process that minimises treatment time.

Scan here to
find out more



Guard-X

Fully Customisable Mouthguards

Guard-X Mouthguards offer fully customisable protection with options tailored to individual needs:

- **Two Levels of Protection:** Available in both Standard and Professional models, catering to different protection requirements.
- **Sport-Specific Design:** Specify the sport, and we'll ensure optimal protection.
- **Custom Colours and Logos:** Choose any colour, and add a club logo or school emblem for personalized style.
- **Compatibility with Braces:** We can create mouthguards that fit comfortably over fixed brackets.

- **Personalisation:** Each mouthguard can include the wearer's name at no extra cost, ensuring easy identification.

- **Storage Box Included:** Every Guard-X Mouthguard comes with a convenient storage box.

These customisable mouthguards offer both style and protection, designed to meet the demands of any athlete.

Scan here to
find out more



3D Printed Appliances

Looking for high-quality, 3D-printed orthodontic appliances?

ArchformByte offers a wide range of expertly crafted appliances, from Rapid Maxillary Expansion devices to TwinBlock appliances (also known as Hudson Incliner).

Our state-of-the-art 3D printing technology ensures precision and efficiency.

How It Works:

- 1. Submit Your Files:** Send us your .stl scan file or impressions.
- 2. Custom Design:** Our skilled technicians will design the appliance tailored to your specifications.
- 3. 3D Printing:** We'll print your appliance with top-quality materials and attention to detail.

Our 3D Printed Appliances Include:

- **Rapid Maxillary Expansion Appliances:**
Perfect for expanding the upper jaw with accuracy.
- **TwinBlock Appliances (Hudson Incliner):**
Designed to correct jaw discrepancies effectively.



Our commitment to innovation and quality ensures that each appliance we produce meets the highest standards, enhancing patient outcomes and improving your practice's efficiency.

Ready to start? Send your files to **hello@archformbyte.com** and let us bring your designs to life!



3D Printing Services For Any Project

Have .STL files ready for 3D printing?

We're here to help! Whether it's testing new ideas, creating prototypes, or bringing parts and appliances to life, our 3D printing services are ideal for any project.

How It Works:

- 1. Submit Your Files:** Send your .STL files to hello@archformbyte.com.
- 2. Tell Us What You Need:** Include details about your project requirements.
- 3. Get a Quote:** We'll review your files and provide a customised quote for your project.

From design concepts to functional parts, we use the latest 3D printing technology to bring your vision to reality with precision and speed. No matter the field or project type, we've got you covered!

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