SINO ORTHO LIMITED

(2025-2026)

PRODUCT INSTRUCTIONS
- ATTACHMENTS -





[YOUR TRUST,OUR RESPONSIBILITY]

Metal Attachments

[Category Description]

Small metallic auxiliaries used with fixed appliances to provide **hooks, stops, auxiliary anchorage, and force application points** during orthodontic treatment.

[Material Composition]

Surgical-grade stainless steel

[Intended Use]

For use by licensed dental professionals, in conjunction with brackets, buccal tubes, archwires, and elastics, to **attach auxiliaries, create or adjust points of force application, limit archwire migration, assist traction/rotation, or manage occlusion/soft-tissue interactions** as clinically indicated.

[Packaging]

10 pcs/pack (most items). Some chains/special items may be supplied in **2 pcs/pack** or other counts (refer to catalog).

[Precautions]

· **Supplied non-sterile; single-patient use.** Complete **cleaning and (if required) sterilization/reprocessing** per clinic protocol **before intraoral bonding or placement**.
· Avoid **excessive bending, twisting, or over-crimping**, which may cause cracks, loosening, or debonding.
· Check for **deformation, burrs, cracks, loosened welds/mesh bases (if present)** prior to use; replace if any defect is detected.
· Observe moisture control and follow adhesive IFUs during bonding.
· Children should use under caregiver supervision.

[Storage Conditions]

Store in a **clean, dry, well-ventilated** environment, away from **corrosive gases, high humidity, and heat**.

[Shelf Life]

5 years under specified storage conditions. Do not use beyond the labeled date or if structural/surface integrity is compromised.

[Warranty]

12 months against materials and manufacturing defects under proper handling and intended use.

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• Metal Stops

[Crimpable Stops]

· Crimp-on anti-migration blocks for archwires (including mini and split designs).
· **Limit archwire sliding** and **locate auxiliaries** at prescribed positions.
· Wire compatibility and body width per catalog (e.g., 1.6 / 1.9 / 2.4 mm for split types).



[Active Crimpable Stops (with Hook)]

· Crimpable stop with **built-in elastic portion or integrated hook**.
· **Stop + temporary hook** for fine adjustment of the force point.
· Wire compatibility; hook height/type per catalog.



• Metal Hooks

[Crimpable Hook]

· **Crimp-on hook** mounted directly on the archwire; straight or curved profiles with multiple hook heights.
· **Temporary anchorage/elastic attachment**, including relocation of the force line without removing the archwire.
· Wire compatibility; typical hook diameters/heights per catalog.



[Curved (Spiral) Crimpable Hook]

· Curved hook profile to improve soft-tissue clearance or align with the intended force vector.
· Optimize force direction and patient comfort.
· Wire compatibility; hook dimensions per catalog.



[Triangular-Base Crimpable Hook]

· Crimpable hook with a **triangular base** for enhanced anti-rotation stability.
· Provide a more **durable, stable** hook under complex loading.
· Base size and wire compatibility per catalog.



[Sliding Hook / Sliding Hook Button]

· A hook or button that can **slide along the archwire**, allowing positional adjustment.
· Situations requiring an **adjustable point of force application**.
· Wire compatibility; sliding range per catalog.



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[Sliding Break Circle Hook Button]



- Sliding button with a **large circular ring** for easy elastic/chain connection and reduced accidental disengagement.
- **Robust attachment point** with convenient replacement.
- Base and ring dimensions per catalog.

• Metal Buttons & Eyelets

[Lingual Button]



- Bondable button, often with a **mesh base**; base geometries include **hollow, round, elliptical, triangular, or rectangular**.
- **Traction point**, **rotation control**, or **interim force site** where a bracket cannot be placed initially.
- Button diameter/height and base size per catalog.

[Lingual Button with Eyelet / Direct-Bond Eyelet]



- Button with a **through-hole** (optional **eccentric** position) and various base shapes.
- Create **low-friction traction paths** and fine-tune pull angles by threading wire or elastics.
- Eyelet diameter and base dimensions per catalog.

[Button Chain]



- **Serial (linked) buttons** forming a multi-point chain.
- **Multi-point or distance traction**, e.g., exposure/traction of impacted canines.
- Chain length and pitch per catalog.

[Omega / Double-Hook / Extra-Large / With-Hook Variants]



- Parameterized variants of the bondable button family featuring **Ω shapes, dual hooks, oversized heads, or integrated hook(s)**.
- Select shape to match space, force direction, or attachment needs.
- Head diameter/height, hook geometry, and base size per catalog.

• Bite/Soft-Tissue Aids

[Bite Guide]



- Small **bondable bite platform** with smooth edges and low profile.
- **Eliminate premature contacts/deep bite** and guide occlusion; may reduce lower incisor bracket failures.
- Platform height and base size per catalog.

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[Tongue Tamer]



· Bondable **tongue-limiting aid** with a contoured base for lingual placement.
· **Habit control** (e.g., anterior tongue thrust) and adjunctive management of deep overbite/occlusal schemes.
· Projection height and base size per catalog.

• Metal Cleats

[Lingual Cleat / Elliptical-Base Lingual Cleat]



· Low-profile **wedge-type cleat**; base may be elliptical or other shapes.
· **Assist traction**, maintain ligation direction, and **support rotation control** with minimal bulk.
· Base geometry and footprint per catalog.

• Metal Tubes & Cross Components

[Crimpable Cross Tube]



· Crimp-on **cross-channel** tube mounted on the archwire.
· Establish **secondary/orthogonal pathways** or pass auxiliaries to create complex force systems.
· Wire compatibility and inner diameter per catalog.

Ceramic Attachments

[Category Description]

Auxiliary **ceramic** attachments for orthodontic mechanics (e.g., buttons for traction). Supplied **non-sterile**; **single-patient use**. Perform cleaning and (if clinically required) sterilization per clinic protocol before bonding.

[Material Composition]

Alumina-based ceramic

[Intended Use]

Provide **attachment points** for elastics or auxiliaries, facilitate **rotation/traction**, or serve as alternative bonding sites when conventional brackets cannot be placed initially (per clinician judgment).

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[Packaging]

10 pcs/pack

[Precautions]

- **Single-patient use.**
- Ceramic is **brittle**; avoid impact and over-angulated debonding forces.
- Inspect prior to use; discontinue if **chips, cracks, or base damage** are present.
- Ensure moisture control and follow adhesive IFU during bonding.

[Storage Conditions]

Store in a **clean, dry, well-ventilated** environment, away from **corrosive gases, high temperature, and moisture**.

[Shelf Life]

5 years under specified storage conditions.

[Warranty]

12 months against materials and manufacturing defects under proper handling and intended use.





• Ceramic Lingual Button

[Description]

Bondable ceramic button with contoured base for close adaptation; used when limited space or severe rotation prevents initial bracket placement.

[Intended Use]

Establish **traction points** for rotation and alignment when brackets cannot be immediately bonded; may be combined with open-coil springs or elastomeric chains per treatment plan.

[Size Range]

Size: diameter 3.3mm, height 2.4mm.

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Lingual Retainers

[Category Description]

Orthodontic retention components used on the **lingual side** to maintain tooth position after treatment. Supplied **non-sterile**; **single-patient use**. Perform cleaning and (if clinically required) sterilization per clinic protocol before intraoral bonding.

[Material Composition]

Surgical-grade stainless steel

[Intended Use]

For **long-term or permanent retention** of aligned teeth; may also serve as **splints** to stabilize mobility in selected periodontal cases at the clinician's discretion.

[Packaging]

10 pcs/pack (wire segments) or **2 pcs/set (bondable pieces)** depending on configuration.

[Precautions]

· **Single-patient use.**
· Avoid **excessive bending** that could induce metal fatigue or deformation.
· Inspect prior to use; discontinue if **burrs, corrosion, deformation, or broken strands** are observed.
· Ensure moisture control and follow adhesive IFU during bonding.

[Storage Conditions]

Store in a **clean, dry, well-ventilated** environment, away from **corrosive gases, high temperature, and moisture**.

[Shelf Life]

Recommended use period: 5 years under specified storage conditions.

[Warranty]

12 months against materials and manufacturing defects under proper handling and intended use.

• Braided Retainer Wire

[Description]

Thin, **rectangular braided wire** designed to lie low and close to the tooth surface; readily formed and able to **hold bends** for bondable lingual retainers.

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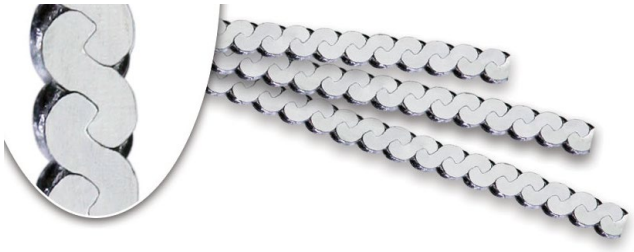
[Intended Use]

Fabrication of **fixed (bonded) lingual retainers** with minimal occlusal interference and good patient comfort.

[Size Range]

Size: 0.010" × 0.028"; 0.010" × 0.032";
Length: 150 mm.





• Bondable Lingual Retainers

[Description]

Pre-sized, bondable lingual retainer segments measured **center-to-center** between adjacent teeth.



[Intended Use]

Semi-permanent to permanent retention; may function as a **splint** to stabilize mobility when indicated. Patients should maintain strict oral hygiene and receive periodic prophylaxis to control plaque and calculus.

[Size Range]

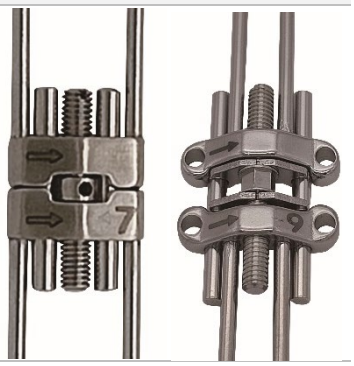
Size: 20 / 22 / 24 / 26 / 28 / 30 mm.

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Orthodontic Expansion Screw (Hyrax-type Jackscrew)

[Product Description]

A central **mechanical jackscrew** used as the force-generating component in orthodontic expansion appliances. Activation is performed with the supplied key in **¼-turn** increments to produce controlled transverse expansion. **Component supply only** — integration into a clinician-prescribed appliance must be performed by qualified personnel. Supplied **non-sterile** for **single-patient** use. The screw body bears a printed **arrow** indicating the activation direction.



[Material Composition]

Surgical **stainless steel**

[Size Range]

· Maximum expansion travel (standard): **7 / 9 / 11 / 13 mm**.
· MSE (mini-screw assisted) jackscrew option: **7 / 8 / 9 / 11 / 13 mm**.
· **Lead / pitch (typical industry value): ≈ 0.8 mm per full turn** (**≈ 0.2 mm per ¼-turn**); follow the value marked for this model. For additional options, **consult your sales representative**.
· **Accessory:** One **activation key** per screw.

[Intended Use]

To generate transverse expansion of the dental arch as part of a removable or fixed orthodontic appliance under the direction of a licensed dental professional.

[Instructions for Use]

This component must be integrated into an appliance by professional personnel. **Activation frequency and duration follow the clinician's prescription.**

1.Laboratory assembly & delivery

· Select the travel length and position per prescription; verify **free travel** across the full range.
· Integrate into the framework (e.g., solder to palatal arms for Hyrax; embed in acrylic for Schwarz) with **parallel alignment** and an unobstructed thread.
· Confirm the **arrow direction** and record the **starting hole** before delivery.

2.Patient activation (reference ranges; follow prescription)

· Common rapid protocols: **¼-turn, 1–2 times/day** for **≈ 2–4 weeks**.
· Slower protocols: **¼-turn every 1–3 days**, adjusted for age, skeletal resistance, and comfort.
· General rules: **do not "double" turns** to compensate for missed activations; if pain, looseness, or key obstruction occurs, **stop and contact the clinic**; keep the keyhole clean and **do not force** the key.

3.Follow-up and retention

· Review at prescribed intervals; after reaching the target width, proceed to **retention** per clinician protocol.

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[Packaging]

Plastic bag, 1 set/pack (**jackscrew + activation key**). Kit variants per catalog.

[Precautions]

- **Professional use only.**
- **Single-patient component; do not reprocess or reuse across patients.**
- During activation, follow the **arrow direction**; **do not reverse** while withdrawing the key.
- Avoid corrosive chemicals and abrasive cleaning.
- Keep the screw and key out of reach of children.

[Contraindications]

- Inability to comply with the activation schedule or poor oral hygiene.
- Active infection at appliance sites.
- Known hypersensitivity to **stainless-steel alloys**; select materials accordingly.

[Storage Conditions]

Store in a **clean, dry, well-ventilated** environment, protected from contaminants, corrosive gases, and direct sunlight.

[Shelf Life]

5 years under the specified storage conditions. Do not use beyond the labeled date.

[Warranty]

12 months against materials and manufacturing defects under proper storage and intended clinical use. Misuse, reverse-forcing, cross-patient reuse, or damage from improper integration is excluded.

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