SINO ORTHO LIMITED

(2025-2026)

PRODUCT INSTRUCTIONS
- BRACKETS -





[YOUR TRUST,OUR RESPONSIBILITY]

Orthodontic Ceramic Brackets

[Product Description]



Bright Series, Pure Clear Series, Song Series, and Westlake Series are aesthetic labial brackets that **blend naturally with tooth shades** while delivering **reliable, treatment-long mechanics**. The portfolio spans polycrystalline alumina twin designs, **high-translucency monocrystalline sapphire** options, **metal-lined slot ceramics** to reduce slot wear and improve sliding, and ceramic variants optimized for **low-friction ligation**.

Contemporary ceramic brackets emphasize **low profile, rounded edges**, and **optimized bonding bases** (e.g., mesh, dovetail, micro-/quad-matte) to provide strong adhesion and **predictable debonding** when used with brand-specified techniques and instruments. Published data consistently indicate that **metal-insert ceramic slots** show **lower friction** than all-ceramic slots under comparable conditions, while **stainless-steel brackets** still exhibit the lowest friction overall.

[Material Composition]

Alumina ceramic (polycrystalline) or **monocrystalline sapphire** bracket body with tie-wings and base; optional stainless-steel slot insert or stainless-steel clip for self-ligating variants.

[Size Range]

- **Systems (Prescriptions): Roth, MBT, Edgewise (per catalog).**
- **Slot Dimensions: .018" and .022".**
- **Set Configuration: Upper/lower 5–5; hooks and torque values per prescription.**

Series highlights

- **Bright Series:** Polycrystalline ceramic twin bracket with a **low profile** and **rounded contours** for comfort.
- **Pure Clear Series (incl. Sapphire): Monocrystalline, high-clarity** look for enhanced esthetics; finely polished surfaces.
- **Song Series:** Aesthetic twin design with **refined slot geometry** for consistent wire engagement.
- **Westlake Series:** Everyday handling focus with **bonding stability** and a clean, low-profile silhouette.

[Intended Use]

For fixed orthodontic treatment requiring aesthetic brackets for alignment, leveling, space management, torque control, and finishing.

[Instructions for Use]

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· **Bonding**

1. Tooth preparation: Prophylaxis and isolation. Etch, rinse, dry. Apply primer/adhesive strictly per the adhesive IFU.

2. Placement: Position by tooth-specific ID marks; press to seat; remove excess flash; light-cure per adhesive IFU.

3. Archwire sequence: Follow your clinical protocol (e.g., round NiTi → rectangular SS).

4. Self-ligating operation:

- **Passive** designs close without engaging the wire actively in the lumen (reduced friction in early alignment).
- **Interactive** clips act passive with small round wires and become **active** on rectangular wires for torque/rotation control.

· **Debonding**

Remove the archwire first. Use the brand-specified debonding instrument and/or mesial-distal squeeze technique; maintain instrument control on the bracket during lift-off.

[Packaging]

· **Standard:** Plastic boxes or bags, typically **20 pcs/set**; tooth-specific assortments per catalog.
· **Custom options: Add buccal tubes to the kit on request;**
customize hooks as **no hook / hook 3 / hook 3,4,5**.

[Precautions]

· **For professional use only.**
· Brackets are **single-use**; **do not reprocess or reuse**.
· Avoid levering against the slot; verify soft-tissue clearance and occlusal interferences.
· Instruct patients to avoid **hard or sticky foods** and to maintain hygiene around brackets.

[Contraindications]

· Active periodontal disease until stabilized.
· Known hypersensitivity to stainless-steel constituents (e.g., nickel). Use with caution in susceptible individuals.

[Storage Conditions]

Store in a **clean, dry, well-ventilated** environment, relative humidity **≤ 80%**, free of corrosive gases and direct sunlight

[Shelf Life]

5 years under 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, reprocessing, off-label handling, or damage from improper instruments is excluded.

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Orthodontic Metal Brackets

[Product Description]

Stainless-steel labial brackets intended for **fixed orthodontic treatment**. The series provide **standardized slot dimensions** and common prescriptions to support routine alignment, leveling, space management, torque control, and finishing. Each bracket is manufactured from orthodontic stainless steels using precision processes—such as metal injection molding, **laser welding**, or **one-piece bases**—to ensure dimensional accuracy and mechanical reliability. Products are supplied **non-sterile** for **single-patient use**.



[Material Composition]

Precipitation-hardening **17-4 stainless steel (05Cr17Ni4Cu4Nb)** and orthodontic stainless steels such as **06Cr19Ni10** and **06Cr17Ni12Mo2** (or equivalent grades), with bracket body and base/cleat as applicable. MIM construction with laser-welded or one-piece bases per series design.

[Size Range]

- **Systems (Prescriptions): Roth, MBT, Edgewise (per catalog).**
- **Slot Dimensions: .018" and .022".**
- **Set Configuration: Upper/lower 5–5; hooks and torque values per prescription.**

Series highlights

- **Qin Series:** MIM 17-4 SS; high-retention bases (80-mesh or micro-etched one-piece/pylon).
- **Tang Series:** Laser-welded base, chamfered slot walls, integrated ball hooks.
- **Great Wall Series:** Clip architecture (passive/active options) with laser-welded base and cobalt-nickel clip.
- **Spherical Self-Ligating:** Semi-spherical housing optimized for soft-tissue comfort.

[Intended Use]

For fixed orthodontic treatment including alignment, leveling, space management, torque control, and finishing with labial metal brackets.

[Instructions for Use]

- **Bonding**

1. Tooth preparation: Prophylaxis and isolation. Etch, rinse, dry. Apply primer/adhesive strictly per the adhesive IFU.

2. Placement: Position by tooth-specific ID marks; press to seat; remove excess flash; light-cure per adhesive IFU.

3. Archwire sequence: Follow your clinical protocol (e.g., round NiTi → rectangular SS).

4. Self-ligating operation:

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- **Passive** designs close without engaging the wire actively in the lumen (reduced friction in early alignment).
- **Interactive** clips act passive with small round wires and become **active** on rectangular wires for torque/rotation control.

- **Debonding**

Remove the archwire first. Use the brand-specified debonding instrument and/or mesial-distal squeeze technique; maintain instrument control on the bracket during lift-off.

[Packaging]

- **Standard:** Plastic boxes or bags, typically **20 pcs/set**; tooth-specific assortments per catalog.
- **Custom options: Add buccal tubes to the kit on request;**
  customize hooks as **no hook / hook 3 / hook 3,4,5**.

[Precautions]

- **For professional use only.**
- Brackets are **single-use**; **do not reprocess or reuse**.
- Avoid levering against the slot; verify soft-tissue clearance and occlusal interferences.
- Instruct patients to avoid **hard or sticky foods** and to maintain hygiene around brackets.

[Contraindications]

- Active periodontal disease until stabilized.
- Known hypersensitivity to any metal components used in specific variants.

[Storage Conditions]

Store in a **clean, dry, well-ventilated** environment, relative humidity **≤ 80%** (some kits specify ≤ 40%), free of corrosive gases and direct sunlight

[Shelf Life]

5 years under 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, reprocessing, off-label handling, or damage from improper instruments is excluded.

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