SINO ORTHO LIMITED

(2025-2026)

PRODUCT INSTRUCTIONS
- INSTRUMENTS -





[YOUR TRUST,OUR RESPONSIBILITY]

Protraction Face Mask (Class III)

[Product Description]

An extraoral orthodontic device that transmits **anterior/downward traction** from the facemask crossbar to the **maxillary dentition/maxilla** via elastics. The assembly includes a **forehead pad**, a **chin pad**, a **front crossbar with bilateral hooks**, and connecting framework with adjustable elements for fit and vector control.

[Material Composition]

Stainless steel frame, **engineering plastics** for connectors/housings, and **3M soft pad material** for the forehead and chin pads.

[Size Range]

· **Standard (Delaire-type frame):**
Vertical framework with adjustable **front crossbar** and **bilateral elastic hooks**, plus forehead and chin pads.
· **Adjustable (ring-frame):**
Lightweight ring-style frame with a central **horizontal crossbar** (bilateral hooks); pad positions and bar height/protrusion are adjustable.



[Intended Use]

Indicated for **skeletal/dentoalveolar Class III** cases (maxillary deficiency and/or relative mandibular prognathism) to provide **maxillary protraction** under the prescription and supervision of a licensed dental professional.

[Instructions for Use]

1. Fitting and adjustment
The clinician adjusts **forehead/chin pad positions**, **crossbar height/protrusion**, and **traction vector** to align with the patient's intraoral maxillary hooks or bonded buttons.
2. Elastic connection
Elastics are attached from the **intraoral maxillary attachment points** to the **bilateral hooks** on the facemask crossbar, following the prescribed vector.
3. Force and wear time
Follow the clinician's prescription for force magnitude and daily wear duration.
4. Daily use notes
Ensure pads contact the skin **evenly**. If pressure marks or discomfort occur, **stop using it and contact the clinic** for adjustment. **Replace elastics** as directed. Keep a log of wear time and any discomfort for review at follow-ups.

Cleaning and Maintenance:
· **Pads (skin-contact areas):** Wipe daily with **clean water**, then dry completely. If disinfection is required, use methods compatible with pad materials per clinic guidance; **do not soak** or use chemicals that could damage soft pads/adhesives.

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· **Metal/plastic frame and crossbar:** Wipe with clean water and dry; periodically check **hooks and adjustment screws** for looseness or wear.
· **Discontinue use** and seek service if cracks, deformation, pad detachment, or loose hardware are detected.

[Packaging]

One complete device per package, including **facemask frame** and **forehead/chin pads**. Elastics are supplied per prescription or purchased separately. Refer to catalog for exact contents.

[Precautions]

· **For use under professional prescription and guidance.**
· **Supplied non-sterile; single-patient use.** Any pre-delivery cleaning/disinfection is performed per clinic protocol; **do not reuse across patients**.
· Avoid excessive traction, improper vectors, or self-bending of the crossbar/frame that could cause **skin injury, TMJ discomfort, or device deformation**.
· Keep away from open flames and high heat; avoid heavy loads, drops, or prolonged moisture.
· Children must use under **caregiver supervision**. Do not use if packaging is damaged or defects are visible.

[Contraindications]

· **Active skin lesions or breakdown** at contact sites (use after resolution).
· Known or suspected hypersensitivity to device materials (stainless steel, engineering plastics, soft pad materials).
· Patients unable to comply with prolonged wear and scheduled follow-ups, or those with craniofacial conditions that **contraindicate extraoral traction** (clinician judgment required).

[Storage Conditions]

Store in a **clean, dry, well-ventilated** environment, away from **direct sunlight, corrosive gases, and heavy loads**. When not in use for extended periods, clean, dry, and store in the box.

[Shelf Life]

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

[Warranty]

12 months against materials and manufacturing defects under proper storage and intended clinical use. Damage due to misuse, unauthorized modification, excessive traction, or incompatibility with ancillary components is excluded.

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Arch Former with Precision

[Product Description]

A handheld mechanical instrument for **forming torque and controlled bends** on rectangular orthodontic archwires. The device features a precision **slot face**, **press pin/lever**, and a stable hinge mechanism that allows **incremental, repeatable adjustments** without excessive force.



[Material Composition]

Stainless steel or **aluminum alloy**.

[Type]



· **No-torque slot** (0°): Available in **stainless steel (Iron color)** and **aluminum alloy (Black)**.
· **Light torque slots** (5°, 7°): **Stainless steel**, **Blue**.
· **Moderate torque slots** (10°, 16°): **Stainless steel**, **Blue**.

[Intended Use]

For forming torque, symmetric bends, and localized adjustments on rectangular orthodontic archwires in clinical or lab settings.

[Instructions for Use]

1. Select slot: Choose the target **torque angle** (0° / 5° / 7° / 10° / 16°) according to the prescription.
2. Position wire: Place the **rectangular archwire** into the selected slot; ensure it is **centered and fully seated**.
3. Engage & rotate: Stabilize the wire with the press pin/lever and **rotate smoothly** to achieve the intended bend/torque. Use **incremental adjustments** rather than one large movement.
4. Verify & refine: Release, check the bend, and make **small micro-adjustments** as needed for symmetry and precision.
5. Safety: Operate only with **slot-compatible rectangular sizes**. Avoid excessive force or rapid back-and-forth twisting that may damage the wire or instrument.

Cleaning & Maintenance:
· **Point-of-use**: Remove visible debris promptly after use.
· **Cleaning**: Wash with **neutral-pH enzymatic detergent**; use soft brushes to clean the slot face, press pin, and hinge areas. **Rinse thoroughly** with clean water and dry completely.
· **Inspection & care**: Regularly inspect for **wear, burrs, looseness, corrosion, or hinge sticking**. Apply **small amounts of instrument-compatible lubricant** to the hinge/rotational joint per departmental policy.
· **Do not** use corrosive chemicals or abrasive media that could damage precision surfaces.

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[Packaging]

Aluminum storage case or equivalent protective packaging; see packing list/catalog for supplied configuration.

[Precautions]

- **For professional use only.**
- Confirm **slot compatibility** with the archwire size and alloy before forming.
- Discontinue use if cracking, deformation, excessive play, or hinge binding is observed.
- Keep out of reach of children; re-inspect the instrument after drops or heavy impacts.

[Contraindications]

No device-specific contraindications. Do not force wires that are incompatible with the slot size or instrument design.

[Storage Conditions]

Store in a **clean, dry, well-ventilated** environment, protected from **corrosive agents, high temperatures, and heavy loads**. When not in use for extended periods, clean, dry, and store in the case.

[Service Life]

Reusable instrument with **no fixed service life** provided it continues to pass routine inspection and function checks. **Remove from service** if wear, deformation, corrosion, hinge looseness, or functional failure is detected.

[Warranty]

12 months against materials and manufacturing defects under proper handling and intended use. Damage due to misuse, over-torquing, chemical attack, insufficient maintenance, or unauthorized modification is excluded.

Bracket Position Gauge

[Product Description]

A handheld positioning instrument for **vertical height and placement referencing** of orthodontic brackets. Standardized gauge steps/edges allow **quick, repeatable** bracket positioning at prescribed crown heights in direct or indirect bonding workflows.

[Material Composition]

Stainless steel

[Type and Size]

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· **Double-Ends**
Gauge steps on both ends for right-/left-handed use and different tooth positions.
Size:2.0/2.5/3.0/3.5mm (Small) **or** 3.5/4.0/4.5/5.0mm (Medium) **or** 4.0/4.5/5.0/5.5mm (Large)
· **Cross Type:**
Cross layout usable in four directions for consecutive teeth and easy line-of-sight changes.
Size:3.5/4.0/4.5/5.0mm





[Intended Use]

For assisting licensed dental professionals in positioning brackets at prescribed vertical heights **from the mid-crown to the incisal edge**, providing a physical reference during direct or indirect bonding.

[Instructions for Use]

1. Select height: Choose the prescribed height step (e.g., 3.5 mm, 4.0 mm) according to the tooth and treatment plan.
2. Seat the gauge: Place the gauge step **flush to the labial/buccal surface**; align the reference face with the tooth's long axis.
3. Place the bracket: Use the **upper edge/reference face** of the step to align the bracket base at the target height. For direct bonding, remove excess adhesive and cure per adhesive IFU.
4. Indirect bonding (if used): Position and cure on the model/transfer tray first, then transfer intraorally.
5. Verify: After bonding, verify height and angulation; make minor adjustments if needed.

Cleaning & Maintenance:
· **Point-of-use:** Remove visible residue/adhesive promptly after use.
· **Cleaning:** Wash with **neutral-pH enzymatic detergent**; use soft brushes on steps and edges. **Rinse thoroughly** with clean water and dry completely.
· **Inspection & care:** Check routinely for **burrs, bends, worn markings, or corrosion**. **Discontinue use and replace** if any defect is found.
· **Do not** use corrosive chemicals or abrasive media that could damage precision edges or surface finish.

[Packaging]

Aluminum storage case or equivalent protective packaging; see packing list/catalog for supplied configuration.

[Precautions]

· **For professional use only.** Confirm the prescribed height and tooth before positioning.
· Do not use the instrument for **prying, scraping, or levering**; misuse may deform edges or damage enamel.

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· After drops or heavy loads, re-check straightness and edge integrity; cease use if abnormal.
· Keep out of reach of children.

[Contraindications]

No device-specific contraindications. When bonding is contraindicated (e.g., **extensive caries, severe defects, or moisture control issues**), defer bracket positioning until clinically appropriate.

[Storage Conditions]

Store in a **clean, dry, well-ventilated** environment, protected from **corrosive gases, heat, and heavy loads**. For long intervals, clean, dry, and keep in the instrument case.

[Service Life]

Reusable instrument with **no fixed service life** provided it continues to pass routine inspection and function checks. **Remove from service** if wear, deformation, burrs, or corrosion compromise safety or accuracy.

[Warranty]

12 months against materials and manufacturing defects under proper handling and intended professional use. Damage due to misuse, off-label use, chemical attack, inadequate maintenance, or unauthorized modification is excluded.

Bracket Tweezers

[Product Description]

A handheld precision tweezer for **gripping, transferring, and placing orthodontic brackets** during bonding procedures.

[Material Composition]

Stainless steel

[Design]

Straight body;
reverse-action mechanism;
anti-slip serrated;
compatible with self-ligating brackets;
lightweight spring arms.



[Intended Use]

For licensed dental professionals to **hold and position brackets** during direct or indirect bonding.

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[Instructions for Use]

1. Preparation: Clean the instrument per clinic protocol; isolate the field. Ensure tooth surface and bracket base conditions meet the adhesive IFU.
2. Placement: Use the tweezers together with a **Bracket Position Gauge** (if applicable) to achieve prescribed height and angulation; remove excess adhesive and **cure** per adhesive IFU.
3. Verification: After curing, verify position and orientation; perform minor adjustments as clinically indicated.

Cleaning and Maintenance:
· **Point-of-use:** Remove visible adhesive/residue promptly to prevent hardening in tip serrations.
· **Cleaning:** Wash with **neutral-pH enzymatic detergent**; use soft brushes on tips, joints, and gaps. **Rinse thoroughly** and dry completely.
· **Inspection:** Routinely check **tip alignment, spring return, burrs, looseness, corrosion**. Discontinue use and repair/replace if defects are found.
· **Do not** use corrosive chemicals or abrasive media that may damage precision surfaces.

[Packaging]

PP pouch or equivalent protective packaging.

[Precautions]

· **For professional use only.**
· Handle gently and in control; **avoid excessive force** that may deform brackets or damage enamel.
· Do not use the instrument for **prying or scraping**.
· After drops or heavy loads, re-check **tip alignment and straightness**; cease use if abnormal.
· Keep out of reach of children. Do not use if package is damaged or defects are visible.

[Contraindications]

No device-specific contraindications. Defer bonding when moisture control is inadequate or when extensive caries/defects contraindicate bracket placement.

[Storage Conditions]

Store in a **clean, dry, well-ventilated** environment, protected from **corrosive gases, heat, and heavy loads**. For long intervals, clean, dry, and store in a protective case.

[Shelf Life]

Reusable instrument with **no fixed service life** if it continues to pass routine inspection and function checks. **Remove from service** if tip misalignment, deformation, burrs, looseness, or corrosion compromise safety or accuracy.

[Warranty]

12 months against materials and manufacturing defects under proper handling and intended professional use. Damage due to misuse, over-force, chemical attack, inadequate maintenance, or unauthorized modification is excluded.

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Buccal Tube Tweezers

[Product Description]

A handheld precision tweezer for **gripping, transferring, and placing orthodontic buccal tubes** during bonding procedures. Features a **reverse-action mechanism** (releases when pressed, **clamps when relaxed**) for stable handling.

[Material Composition]

Stainless steel

[Design]

Straight body;
reverse-action mechanism;
anti-slip serrated/grooved tips;
geometry matched for common buccal tube forms;
lightweight spring arms.



[Intended Use]

For licensed dental professionals to **hold and position buccal tubes** during direct or indirect bonding as prescribed.

[Instructions for Use]

1. Preparation: Clean the instrument per clinic protocol; isolate the field and prepare tooth surfaces according to the adhesive IFU.
2. Placement: Use the tweezers—optionally together with a **Bracket/Tube Position Gauge**—to position the buccal tube at the prescribed height and angulation; remove excess adhesive and **cure** per adhesive IFU.
3. Verification: After curing, verify position and orientation; perform minor adjustments as clinically indicated.

Cleaning and Maintenance:
· **Point-of-use:** Remove visible adhesive/residue promptly to prevent hardening in tip serrations.
· **Cleaning:** Wash with **neutral-pH enzymatic detergent**; use soft brushes on tips, joints, and gaps. **Rinse thoroughly** and dry completely.
· **Inspection:** Routinely check **tip alignment, spring return, burrs, looseness, corrosion**. Discontinue use and repair/replace if defects are found.
· **Do not** use corrosive chemicals or abrasive media that may damage precision surfaces.

[Packaging]

PP pouch or equivalent protective packaging.

[Precautions]

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- **For professional use only.**
- Handle gently and in control; **avoid excessive force** that may deform brackets or damage enamel.
- Do not use the instrument for **prying or scraping**.
- After drops or heavy loads, re-check **tip alignment and straightness**; cease use if abnormal.
- Keep out of reach of children. Do not use if package is damaged or defects are visible.

[Contraindications]

No device-specific contraindications. Defer bonding when moisture control is inadequate or when extensive caries/defects contraindicate bracket placement.

[Storage Conditions]

Store in a **clean, dry, well-ventilated** environment, protected from **corrosive gases, heat, and heavy loads**. For long intervals, clean, dry, and store in a protective case.

[Shelf Life]

Reusable instrument with **no fixed service life** if it continues to pass routine inspection and function checks. **Remove from service** if tip misalignment, deformation, burrs, looseness, or corrosion compromise safety or accuracy.

[Warranty]

12 months against materials and manufacturing defects under proper handling and intended professional use. Damage due to misuse, over-force, chemical attack, inadequate maintenance, or unauthorized modification is excluded.

SINOORTH

Orthodontic Force Gauge

[Product Description]

A precision measuring instrument for **verifying orthodontic forces** (traction/elastic/ligation forces) during clinical procedures. The gauge provides direct, easy-to-read measurements for chairside checks.



[Material Composition]

Stainless steel

[Measurement Range]

0–450 g / 0–16 oz

[Intended Use]

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For licensed dental professionals to **measure orthodontic pulling or pressing forces** (e.g., elastics, auxiliaries, ligation) during treatment setup and verification.

[Instructions for Use]

1. Preparation: Inspect the gauge for integrity and legible markings. Clean the instrument per clinic protocol. Ensure hands are dry.
2. Alignment: Align the gauge **parallel/colinear with the direction of force** to minimize angular error.
3. Measurement: Engage the hook/probe with the target appliance (e.g., bracket wing, buccal tube hook, elastic). **Load smoothly** to the prescribed level and **record the value**.
4. Verification: Repeat if needed to confirm consistency. If readings are unstable or abnormal, stop and check both the appliance and the gauge.

Cleaning & Maintenance:
· Wipe off visible soil immediately to prevent residue from hardening.
· Wash with **neutral-pH enzymatic detergent**; use soft cloth/brush around contact points and markings. **Rinse thoroughly** with clean water and dry completely.
· Routinely inspect for **clear markings, free movement of the indicator, absence of looseness/deformation/corrosion**.
· **Do not** use corrosive chemicals or abrasive media that may damage the measuring surface or markings.

[Packaging]

Paper or plastic case

[Precautions]

· **For professional use only.**
· Avoid **overload** and **off-axis loading**, which can cause measurement error or damage.
· Read values at a **stable indication** and avoid parallax.
· **Calibration:** Follow your clinic/manufacturer's recommended calibration interval. If the gauge is dropped, shows drift, or fails consistency checks against a known standard, **remove from service** until recalibrated or repaired.

[Contraindications]

No device-specific contraindications. Do not perform measurements when **stable positioning or force direction control** cannot be ensured.

[Storage Conditions]

Store in a **clean, dry, well-ventilated** environment, away from **extreme temperatures, direct sunlight, and corrosive gases**. For extended storage, clean, dry, and keep in the instrument case.

[Shelf Life]

5 years under specified storage conditions. Do not use beyond the labeled date, or if accuracy can no longer be met.

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[Warranty]

12 months against materials and manufacturing defects under proper handling and intended professional use. Damage due to overload, misuse, chemical attack, inadequate maintenance, or unauthorized modification is excluded.

Retractors

[Product Description]

A retractor used to **displace lips and cheeks** and **improve intraoral visibility** during examinations and procedures. Typical applications include **intraoral photography, interproximal reduction (IPR), and clear-aligner placement/review**. Retractors belong to a **broad family** (e.g., self-retainer retractors, lip retractors, cheek retractors, lip depressors); specific sub-models and shapes are listed in the **catalog** and are not enumerated here.

[Material Composition]

PP (polypropylene) **or PC** (polycarbonate)**.**

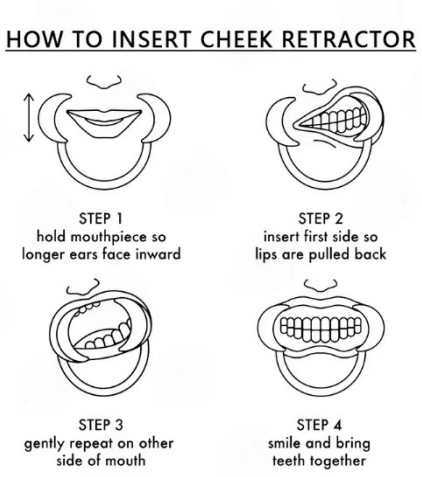
[Type]

Colors: Multiple color options available.
Sizes: See catalog for available sizes and shapes.

[Intended Use]

For use by licensed dental professionals to achieve **soft-tissue retraction and field exposure** during clinical procedures, including intraoral photography, IPR, and clear-aligner workflows.

[Instructions for Use]



1. Preparation: Inspect the device for intact surfaces and edges. Reprocess per clinic protocol. Ensure clean, dry hands and adequate isolation.
2. Placement: Insert **gently** and progressively retract lips/cheeks to obtain the required exposure; adjust position/angle as needed.
3. Monitoring: Continuously **monitor patient comfort**; if discomfort or pressure occurs, relieve or reposition.
4. Removal: Withdraw **slowly** after the procedure and send for reprocessing.

Cleaning & Maintenance:
· Immediately **rinse under running water** to remove visible soil.
· Clean with **neutral detergent/enzymatic cleaner** and a soft brush; **rinse thoroughly** and **dry completely**.
· Routine inspection for **cracks, deformation, chipping, stress marks, or surface dulling**; **discontinue use and replace** if defects are found.

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· **Do not** use corrosive chemicals or abrasive media that may damage the material or edge finish.

[Packaging]

1 pc/pack (individual unit). **Some products are available as 5 pcs/pack**.

[Precautions]

· **For professional use only.**
· Avoid **excessive retraction** or levering that may cause soft-tissue injury or device fracture.
· Do not allow sharp edges to press directly on papillae or wounds.
· Do not use if packaging is damaged or if any defect is visible. Keep out of reach of children.
· Reprocessing steps must follow clinic protocol.

[Contraindications]

· Active **ulcers, infections, or recent surgical sites** at the contact areas—use after resolution or as directed by a clinician.
· Known or suspected hypersensitivity to **PP/PC** materials.

[Storage Conditions]

Store in a **clean, dry, well-ventilated** environment, protected from **high temperatures, direct sunlight, and corrosive gases**. For extended nonuse, clean, dry, and store properly.

[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 professional use. Damage due to misuse, excessive retraction, chemical attack, inadequate maintenance, or modification is excluded.

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