Brackets | Bands | Tubes
Precision engineered and manufactured by G&H® in the U.S.A.
Seeing to every detail to ensure your success

**Precision engineering. Quality U.S. manufacturing.**

At G&H, we are keenly aware of the strict expectations clinicians have for the products we manufacture. For that reason, we employ precision engineering techniques for our brackets, bands and tubes. Whether it’s the Vapor™ bracket shown here, or the other products featured in this brochure, you can be assured you’re using systems that were manufactured with state-of-the-art processes using superior design.

The G&H® Difference – Brackets
Orthodontists have trusted G&H for over 40 years of precision U.S. manufacturing.

G&H offers a full, synchronized orthodontic system
Brackets, tubes, bands, archwires and elastomerics made in the U.S.A. as well as a full line of consumables, adhesives and instruments.

Bracket Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>miniPreval®</th>
<th>Vapor™</th>
</tr>
</thead>
<tbody>
<tr>
<td>State-of-the-art engineering and the highest-quality materials</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Mini twin design for comfort and control</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Distinctive compound contoured mesh bonding base for anatomical fit</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Revolutionary bonding base - adhesive flows through the portals for unprecedented secure bonding and safe debonding</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>MIM*</td>
<td>CIM* manufactured for bracket strength</td>
<td>✔</td>
</tr>
<tr>
<td>Parallel tie wings / Rhomboidal shape</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>No special debonding instrument required</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Excellent value - manufacturer pricing</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Available in popular bracket prescriptions</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Roth</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>High Torque</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>MBT</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Edgewise</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Nearly invisible, aesthetic appearance</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Temporary color-coded ID system with permanent identification indents for ease of use</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Full rotational control</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Low profile and rounded facial contours for patient comfort</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

*MIM - Metal Injection Molding, CIM - Ceramic Injection Molding
Our most preferred metal and ceramic brackets
miniPrevail® Low-Profile Bracket System
Metal Injection Molded Surgical-Grade Stainless Steel (MIM)

miniPrevail brackets are constructed of a specialized micro-grain stainless steel MIM powder, ideal for creating small, robust appliances that are inherently stronger and more dimensionally accurate than other similar brackets.

- **Full Rotational Control**
  - due to the mini twin design

- **Rounded Facial Contours**
  - for patient comfort

- **Low Profile**
  - reduces occlusal interference
  - enhances comfort

- **Compound Contour Base**
  - for increased bond strength and precise bracket placement

- **Increased Tie Wing Area**
  - to facilitate ligation

- **Center Scribe Line**
  - aligns with long axis for accurate placement

- **Color Enhanced I.D.**
  - for easy bracket selection

- **Chamfered Slot Entrance**
  - promotes easier and more rapid archwire placement

- **Torque in Base**
  - for level slot lineup and improved finishing

- **Rhomboidal Shape**
  - Mesiodistal sides line up with the long axis and incisogingival sides line up with the occlusal plane

- **80 Gauge Mesh Anatomical Bonding Base**
  - for secure bonds

*miniPrevail brackets are high-quality twin brackets. The base and scribe lines make for easy bracket placement. The tie wings allow for easy tie-ins with multiple ligatures if needed, but are strong and comfortable for the patient.*

– Graham Jones, D.D.S., M.S.D.

Available in .018 or .022 slot size – Roth* or MBT* prescription
Sold individually or in kits – Also available in Roth V-Slot

*G&H prescriptions are not implied to be an exact version of any other system, nor do we claim any endorsement by the doctor."
“I love how you can hardly tell I’m wearing braces! I feel more confident to smile, plus they’re comfortable.”
Vapor™ Ceramic Bracket System
Ceramic Injection Molded Polycrystalline (CIM)

Vapor’s brilliant translucency presents a totally aesthetic appearance throughout treatment. The smooth, contoured tie wings provide patient comfort and mechanical functionality. The unique bonding base design ensures superior performance and easy, conventional debonding. The unique “portals” in the base allow adhesive to circulate through the base, creating a secure mechanical bond.

FULL ROTATIONAL CONTROL
due to the mini twin design

ROUNDED FACIAL CONTOURS
for patient comfort

COMPOUND CONTOUR BASE
• reduces occlusal interference
• enhances comfort

TORQUE IN BASE
for level slot lineup and improved finishing

INCREASED TIE WING AREA
for easy ligation

COLOR ENHANCED I.D.
for easy bracket selection

ROUNDED EDGES
at the slot entrance and exit for reduced friction

PORTAL
for secure mechanical bonds

CONTOURED TIE WINGS
for enhanced patient comfort

UNIQUE BASE DESIGN
for enhanced bond strength
• 100% mechanical bonds
• No chemical enhancers added
• Precise anatomical contours

Available in .018 or .022 slot size – Roth* or MBT® prescription
Sold individually or in kits

Feature Unique to the Industry:

Revolutionary Bonding Base
Adhesive flows through the portals for unprecedented, secure, mechanical bonding. No special or specific adhesive necessary.

“Vapor system provides all the characteristics one would look for in a high-quality ceramic bracket: aesthetics, ease-of-bonding, smoothness and strength. Thanks to the unique portals in the base, mechanical bond strength is enhanced yet the bracket is easy to debond. It is made in the U.S.A. and is cost-effective. I can’t think of anything else one could possibly ask for.”

– Howard Fine, D.M.D., M.M.sc

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Buccal Tubes

Viper™ Low-Profile Buccal Tubes
Metal Injection-Molded Surgical-Grade Stainless Steel (MIM)

Because buccal tubes are such a critical element in treating malocclusions, G&H has meticulously engineered a full complement of weldable and bondable, convertible and non-convertible tubes.

- **4.2MM MESIAL/DISTAL DIMENSION**
  - for full rotational control

- **MALLEABLE COMFORT BALL HOOK**
  - enhances patient comfort and avoids gingival impingement

- **FULL-FUNNELED ENTRANCE**
  - helps guide wire into buccal tube

- **COMPOUND CONTOUR BASE**
  - anatomically conforms to the tooth and provides proper fit and appliance expression

- **TORQUE IN BASE**
  - for easier alignment with optimal functional occlusion and case finishing

- **PERMANENT COLOR ENHANCED I.D.**
  - designed with specific geometric indents for each prescription, color-coded on the facial surface to help identify molar quadrants and assist with final positioning

- **DISTAL NOTCH**
  - provides additional anchorage for ligation and tieback of auxiliaries

- **OCCLUSAL/GINGIVAL POSITIONING GUIDES**
  - allow for easy placement at the posterior region and assist with major adjustments prior to curing the adhesive

- **80 GAUGE INDENTED MESH PAD**
  - for an anatomically formed fit and maximum bond strength

Available in .018 or .022 slot size – Standard®, Roth® or MBT® prescription
Bondable or weldable base options

**Sleek and Stylish**
G&H’s Viper™ buccal tube incorporates the latest design technology for a comfortable, easy-to-use appliance. The Viper™ tube eliminates the frustration and wasted time of threading a wire into the small opening of traditional buccal tubes. The “trumpeted” entrance of the Viper™ tube facilitates easy wire insertion. Wires are guided easily and gently into the expansive entrance, simplifying archwire adjustments, saving valuable chair time.

*G&H prescriptions are not implied to be an exact version of any other system, nor do we claim any endorsement by the doctor.*
Bands

Saturn™ | Titan™ Molar & Bicuspid Bands
Surgical-Grade Stainless Steel

Whether you are upgrading your current band systems or are just starting out, G&H has a band system to meet your specifications. Manufactured under stringent quality control measures, the precision anatomical shape of our bands provides a tight, secure fit you can count on.

- **FESTOONED EDGES**
  - no sharp edges for maximum patient comfort

- **PERMANENTLY ETCHED**
  - using an electro-chemical etching process for easy permanent identification

- **IDEALLY TEMPERED**
  - for easy contouring, exhibits properties of “hardness” for strength to avoid wall collapse when fitting, yet is malleable enough for “snap” fitting that requires little or no burnishing

- **ANATOMICALLY CONTOURED**
  - for fast placement and secure fit, completely proportioned in all planes and for each band size

- **INCREASED BUCCAL HEIGHT**
  - for fast placement and secure fit, completely proportioned in all planes and for each band size

- **MICRO-ETCHED INTERIOR SURFACE**
  - ensures maximum retention

Available in 36 upper and lower sizes in closely spaced increments –
Titan bands sized in half-size increments and Saturn in full increments

Choose from four kit assortments
- Trial Kit – containing 80 bands
- Intro Kit - containing 150 bands
- Pro Kit - containing 300 bands
- Master Kit - containing 600 bands

G&H attachments are precision pre-welded to our bands at no additional cost.
G&H Aesthetic Line -
Nearly invisible.
Definitely quality.

Clear and pearl elastomerics pictured. Want color? G&H also offers a rainbow of 33 colors!
Precision engineered and manufactured by G&H in the U.S.A.

**Brackets**
(MIM) Surgical stainless steel and (CIM) polycrystalline ceramic brackets - in all popular prescriptions

**Bands**
Complete line of contoured molar and bicuspid bands, micro-etched interior for superior bond strength

**Tubes**
(MIM) Surgical stainless steel, bondable and weldable base options - available in convertible and non-convertible

**Archwires**
G&H is recognized as the world's best manufacturer of premium archwires with 99.9% practitioner satisfaction*

**Elastomerics**
Full line with consistent strength and force values - available in 33 colors

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### Bracket Torque and Angulation Values

#### miniPrevail® .018 & .022 with 0° Rotation

<table>
<thead>
<tr>
<th>Tooth</th>
<th>Torque</th>
<th>Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maxillary</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Central</td>
<td>12°</td>
<td>5°</td>
</tr>
<tr>
<td>Central Hi-Torque</td>
<td>22°</td>
<td>5°</td>
</tr>
<tr>
<td>Lateral</td>
<td>8°</td>
<td>9°</td>
</tr>
<tr>
<td>Lateral Hi-Torque</td>
<td>14°</td>
<td>9°</td>
</tr>
<tr>
<td>Cuspid (w/o hk)</td>
<td>0°</td>
<td>11°</td>
</tr>
<tr>
<td>Cuspid (w/hk)</td>
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<td>11°</td>
</tr>
<tr>
<td>Bicuspid</td>
<td>-7°</td>
<td>0°</td>
</tr>
<tr>
<td>Bicuspid (hk)</td>
<td>-7°</td>
<td>0°</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mandibular</th>
<th>Torque</th>
<th>Angle</th>
</tr>
</thead>
<tbody>
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<td>Anterior</td>
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<td>0°</td>
</tr>
<tr>
<td>Cuspid (w/o hk)</td>
<td>-11°</td>
<td>5°</td>
</tr>
<tr>
<td>Cuspid (w/hk)</td>
<td>-11°</td>
<td>5°</td>
</tr>
<tr>
<td>1st Bicuspid</td>
<td>-17°</td>
<td>0°</td>
</tr>
<tr>
<td>1st Bicuspid (w/hk)</td>
<td>-17°</td>
<td>0°</td>
</tr>
<tr>
<td>2nd Bicuspid</td>
<td>-22°</td>
<td>0°</td>
</tr>
<tr>
<td>2nd Bicuspid (w/hk)</td>
<td>-22°</td>
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</tr>
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#### Vapor™ .018 & .022 with 0° Rotation

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<tr>
<td>Lateral</td>
<td>10°</td>
<td>8°</td>
</tr>
<tr>
<td>Cuspid (w/o hk)</td>
<td>-7° or 0°</td>
<td>8°</td>
</tr>
<tr>
<td>Cuspid (w/hk)</td>
<td>-7° or 0°</td>
<td>8°</td>
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<tr>
<td>Bicuspid</td>
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<td>0°</td>
</tr>
<tr>
<td>Bicuspid (hk)</td>
<td>-7°</td>
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</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Mandibular</th>
<th>Torque</th>
<th>Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anterior</td>
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<tr>
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<td>-6° or 0°</td>
<td>3°</td>
</tr>
<tr>
<td>Cuspid (w/hk)</td>
<td>-6° or 0°</td>
<td>3°</td>
</tr>
<tr>
<td>1st Bicuspid</td>
<td>-12°</td>
<td>0°</td>
</tr>
<tr>
<td>1st Bicuspid (w/hk)</td>
<td>-12°</td>
<td>0°</td>
</tr>
<tr>
<td>2nd Bicuspid</td>
<td>-17°</td>
<td>0°</td>
</tr>
<tr>
<td>2nd Bicuspid (w/hk)</td>
<td>-17°</td>
<td>0°</td>
</tr>
</tbody>
</table>

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*Based on orders shipped free of complaints/concerns

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**Bracket Torque and Angulation Values**

<table>
<thead>
<tr>
<th>Roth Prescription</th>
<th>MBT Prescription</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maxillary</td>
<td>Maxillary</td>
</tr>
<tr>
<td>Tooth</td>
<td>Tooth</td>
</tr>
<tr>
<td>Central</td>
<td>Central</td>
</tr>
<tr>
<td>Central Hi-Torque</td>
<td>Lateral</td>
</tr>
<tr>
<td>Lateral</td>
<td>Cuspid (w/o hk)</td>
</tr>
<tr>
<td>Lateral Hi-Torque</td>
<td>Cuspid (w/hk)</td>
</tr>
<tr>
<td>Cuspid (w/o hk)</td>
<td>Bicuspid</td>
</tr>
<tr>
<td>Cuspid (w/hk)</td>
<td>Bicuspid (hk)</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Mandibular</th>
<th>Torque</th>
<th>Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anterior</td>
<td>0°</td>
<td>0°</td>
</tr>
<tr>
<td>Cuspid (w/o hk)</td>
<td>-11°</td>
<td>5°</td>
</tr>
<tr>
<td>Cuspid (w/hk)</td>
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</tr>
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<td>-17°</td>
<td>0°</td>
</tr>
<tr>
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<td>0°</td>
</tr>
<tr>
<td>2nd Bicuspid</td>
<td>-22°</td>
<td>0°</td>
</tr>
<tr>
<td>2nd Bicuspid (w/hk)</td>
<td>-22°</td>
<td>0°</td>
</tr>
</tbody>
</table>

**Elastomerics**

- Vapor™ .018 & .022 with 0° Rotation
  - Roth Prescription
    - Maxillary
      - Tooth | Torque | Angle |
      - Central | 12°  | 5°    |
      - Lateral | 8°   | 9°    |
      - Cuspid (w/o hk) | 0°   | 11°   |
      - Cuspid (w/hk) | 0°   | 11°   |
      - Bicuspid | -7°  | 0°    |
      - Bicuspid (hk) | -7°  | 0°    |
  - Mandibular
    - Tooth | Torque | Angle |
    - Anterior | 0°   | 0°    |
    - Cuspid (w/o hk) | -11° | 5°    |
    - Cuspid (w/hk) | -11° | 5°    |
    - 1st Bicuspid | -17° | 0°    |
    - 1st Bicuspid (w/hk) | -17° | 0°    |
    - 2nd Bicuspid | -22° | 0°    |
    - 2nd Bicuspid (w/hk) | -22° | 0°    |

**Archwires**

- MBT Prescription
  - Maxillary
    - Tooth | Torque | Angle |
    - Central | 17°  | 4°    |
    - Lateral | 10°  | 8°    |
    - Cuspid (w/hk) | 0°   | 11°   |
    - Cuspid (w/hk) | -7° or 0°| 8°    |
    - 1st & 2nd Bicuspid | -7°  | 0°    |
    - 1st & 2nd Bicuspid (hk) | -7°  | 0°    |
  - Mandibular
    - Tooth | Torque | Angle |
    - Anterior | 0°   | 0°    |
    - Cuspid (w/hk) | -11° | 5°    |
    - 1st Bicuspid | -17° | 0°    |
    - 1st Bicuspid (w/hk) | -17° | 0°    |
    - 2nd Bicuspid | -22° | 0°    |
    - 2nd Bicuspid (w/hk) | -22° | 0°    |

**Elastomerics**

- Vapor™ .018 & .022 with 0° Rotation
  - Roth Prescription
    - Maxillary
      - Tooth | Torque | Angle |
      - Central | 12°  | 5°    |
      - Lateral | 8°   | 9°    |
      - Cuspid (w/hk) | -7° or 0°| 8°    |
      - Cuspid (w/hk) | -7° or 0°| 8°    |
      - 1st & 2nd Bicuspid | -7°  | 0°    |
      - 1st & 2nd Bicuspid (hk) | -7°  | 0°    |
  - Mandibular
    - Tooth | Torque | Angle |
    - Anterior | 0°   | 0°    |
    - Cuspid (w/hk) | -11° | 5°    |
    - 1st Bicuspid | -17° | 0°    |
    - 1st Bicuspid (w/hk) | -17° | 0°    |
    - 2nd Bicuspid | -22° | 0°    |
    - 2nd Bicuspid (w/hk) | -22° | 0°    |

*Based on orders shipped free of complaints/concerns
Contact G&H for trial offers, samples and to schedule a FREE Bracket Consultation

Call: 800-689-5719
or at: www.GHOrthodontics.com