PLUS SL™
Self-Ligating Brackets

SHORTER TREATMENT TIMES.
FEWER APPOINTMENTS.
PROVEN RESULTS.
Introducing PLUS Self-Ligating Brackets, the latest advancement to Tip-Edge technology. PLUS SL brackets offer the results you expect with the added benefit of passive self-ligation. Studies show that self-ligating brackets produce less friction, resulting in reduced treatment time (and reduced chair time). Pair that with the lighter forces produced with Tip-Edge treatment mechanics, and take your practice to the next level of efficiency!

Advantages of PLUS SL Brackets

- All the features of Tip-Edge PLUS and the added benefits of self-ligating brackets.
- Manufactured with cobalt chromium (CoCr) alloy for added strength and reliability. With extremely low nickel content, PLUS SL brackets are ideal for nickel-sensitive patients.
- Possibility of increasing interval between appointments as ligatures do not need to be changed. One article mentions over 5 minutes were saved per arch when comparing self-ligating brackets with conventional brackets tied using ligature wires.
- Reduced chair time – wire removal and engagement (ligation) is quicker as there is no need to place ligatures.
- Improved oral health as there is no need for ligatures.
- Reduction of friction caused by ligatures. (Tip-Edge is already known for being a low friction system, and the self-ligating feature eliminates any friction caused by ligatures.)

Less chair time
Shorter treatment time
Reduced friction from ligatures
Extremely low nickel content
Improved oral health
### PLUS SL: A Comparative Overview

<table>
<thead>
<tr>
<th></th>
<th>PLUS SL</th>
<th>Tip-Edge PLUS</th>
<th>Conventional Self-Ligating Brackets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Forces</td>
<td>●</td>
<td>●</td>
<td>○*</td>
</tr>
<tr>
<td>Dynamic Archwire Slot/Differential Tooth Movement</td>
<td>●</td>
<td>●</td>
<td>○</td>
</tr>
<tr>
<td>Reduced Need for Additional Anchorage</td>
<td>●</td>
<td>●</td>
<td>○</td>
</tr>
<tr>
<td>Deep (horizontal) Tunnel</td>
<td>●</td>
<td>●</td>
<td>○</td>
</tr>
<tr>
<td>Vertical Slot</td>
<td>●</td>
<td>●</td>
<td>○</td>
</tr>
<tr>
<td>Reduced Overall Treatment Time</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Reduced Chair Time</td>
<td>●</td>
<td>○</td>
<td>●</td>
</tr>
<tr>
<td>Reduced Friction from Ligatures</td>
<td>●</td>
<td>○</td>
<td>●</td>
</tr>
<tr>
<td>Improved Oral Health</td>
<td>●</td>
<td>○</td>
<td>●</td>
</tr>
<tr>
<td>Cobalt Chromium (CoCr) Alloy</td>
<td>●</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

- ● - Yes  ○ - Some  ○ - No

### Advantages of PLUS SL over conventional self-ligating brackets

- **Lighter forces (1-4 oz).**\(^1\), \(^2\), \(^3\), \(^5\), \(^7\) Conventional straight-wire brackets exert 6-16 oz.\(^3\), \(^7\)

- **Dynamic archwire slot/differential tooth movement** – the unique slot design enables it to increase in size from .022” to .028” during initial phase permitting tipping and facilitating retraction, reducing friction. Once space is closed, slot size gradually reduces back to .022”, enabling torque expression during finishing phase.\(^1\), \(^2\), \(^4\), \(^7\), \(^8\)

- **Deep tunnel**, which allows synchronous torquing and tipping.\(^2\), \(^8\)

- **Vertical slot option when needed.**\(^2\)

- **Reduced treatment time** – opening and alignment can be performed simultaneously.\(^5\), \(^7\), \(^8\)

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\[^1\]PLUS SL brackets are designed as a passive self-ligating system; other self-ligating brackets on the market may be active systems and have different frictional values.

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### PLUS SL – Streamlined Wire Sequence\(^1\)

<table>
<thead>
<tr>
<th>Stage</th>
<th>Non-extraction Cases</th>
<th>Extraction Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Leveling and aligning</td>
<td>(0.014’’ \text{ and } 0.016’’ \text{ NiTi HA (in some cases } 0.012’’ \text{ NiTi HA)}</td>
<td>(0.014’’ \text{ and } 0.016’’ \text{ NiTi HA (in some cases } 0.012’’ \text{ NiTi HA)}</td>
</tr>
<tr>
<td>2 Midline and molar relationship correction/ finalize space closure</td>
<td>(0.015’’x0.025’’ \text{ or } 0.019’’x0.025’’ \text{ NiTi HA (in some cases } 0.021’’x0.025’’ \text{ NiTi HA)}</td>
<td>(0.014’’ \text{ or } 0.016’’ \text{ Bowtlex (0.020’’ Bowtlex in cases where more space closure is required)}</td>
</tr>
<tr>
<td>3 Finishing and detailing</td>
<td>(0.021’’x0.028’’ \text{ SS and } 0.014’’ \text{ or } 0.016’’ \text{ NiTi in deep tunnel)</td>
<td>(0.021’’x0.028’’ \text{ SS and } 0.014’’ \text{ or } 0.016’’ \text{ NiTi in deep tunnel)</td>
</tr>
<tr>
<td>4 Setting and retention</td>
<td>Pre-Finisher preformed finishing appliance, if indicated (see Instructions for Use)</td>
<td>Pre-Finisher preformed finishing appliance, if indicated (see Instructions for Use)</td>
</tr>
</tbody>
</table>

\(^1\)Wire sequence is used by Ricardo Medrilla, DDS and is shown for reference. The doctor should determine the wire sequence to be used for each individual case.

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Ready to take your practice to the next level with PLUS SL Brackets?
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REFERENCES

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