Glass Separation for Biomedical Devices
with the DTX StreetSmart Breaker

Precision Glass Separation

- The Biomedical industry is adopting semiconductor-like practices to gain scalability, quality control, and repeatability of device performance

- Die separation of a pre-scribed glass panel is quick, clean and repeatable

- Scalable process for ramping up production while maintaining die quality

- After precise laser pre-scribing of the glass panel, resulting die edges are smooth, straight, and chip-free

Dynatex has decades of experience in separation of die and devices made from various substrates (III-V materials, Si, SiC, Ceramic)

StreetSmart Glass Breaking Applications:

- Borosilicate glass
- Fused silica
- Single & stacked glass

Glass Die After Separation:
Image Results of Schott Borofloat 33 (Nexterion® PreScora)

| Separation at intersection | Separation axis 1 | Separation axis 2 |

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Benefits of StreetSmart Glass Separation:

- For high volume production, maintain in-house control of glass device processing:
  - The DTX StreetSmart Breaker processes coated and non-coated glass
    - Separate glass panels before OR after applying a sensitive coating
    - No contact at the sensitive or active area of devices
  - Consistent, repeatable process yields high volume production as demand increases

- For use in R&D AND pilot production of glass based biomedical devices:
  - No more hand breaking of glass yields smooth, straight edges for more consistent results, reducing staff time to drive decreased production cost and increased efficiency
  - The separation process is highly scalable, allowing seamless switching between large-scale production and R&D

System Specifications: DTX StreetSmart Breaker

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Power Required</td>
<td>100/120 VAC 20 amp OR 220/240 VAC 10 amp, 50/60Hz</td>
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<tr>
<td>Operating Temperature</td>
<td>60 - 80° F (15 - 27° C), 40 – 60% relative humidity</td>
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<tr>
<td>Height</td>
<td>78 in (1981.2 mm)</td>
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<tr>
<td>Width</td>
<td>57 in (1477.8 mm)</td>
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<tr>
<td>Depth</td>
<td>50 in (1270 mm)</td>
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<tr>
<td>Chuck/Capacity:</td>
<td>Up to 200 mm square or round glass</td>
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<tr>
<td>Break Time:</td>
<td>– 0.750 to 1.5 seconds per/break</td>
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For more information, please contact:
Email: sales@dynatex.com
Ph: 707-542-4227

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