TransForce²
Arch Developer Appliances
Clinical Cases

New Horizons In Orthodontics
Dr. William Clark has 50 years experience in orthodontic practice and continues to develop innovative appliances in orthodontic and orthopaedic techniques. He developed Twin Blocks in 1977 and is the author of “Twin Block Functional Therapy: Applications in Dentofacial Orthopaedics”, published by Mosby (1995 and, 2002).

Dr. Clark is the first recipient of an award of distinction from the British Orthodontic Society for an outstanding contribution to the specialty of orthodontics. In 2008, he received an award from the International Functional Association for outstanding personal international service to functionalism and orthodontics. In 2010, he completed a thesis on “New Horizons in Orthodontics & Dentofacial Orthopaedics” for a D.D.Sc. Degree from the University of Dundee.
The case studies found on the following pages were performed by Dr. Clark. They illustrate the potential of preformed invisible lingual appliances for sagittal and transverse arch development. Light, biological forces generated by enclosed nickel titanium springs achieve an excellent response from patients of all ages, from interceptive treatment in mixed dentition to adult therapy.

*TransForce*² Lingual Appliances integrate with all types of conventional fixed appliances at any stage to simplify treatment. This approach is affordable and efficient, and typically reduces the time required in a fixed appliance by 50%. This is a very important factor, especially in adult therapy. In many cases alignment and arch form can be improved to a stage where invisible finishing appliances may be used to detail the occlusion.

*TransForce*² Appliances are constructed to the highest engineering standards by *Ortho Orgnizers*®, advancing the future of orthodontics. They do not cover the palate and are comfortable to wear, so patients of all ages appreciate the advantages of *TransForce*² Appliances.

### Ease of Insertion
Placement blades are designed to insert easily into molar bands with standard .036” x .072” lingual sheaths

### Aesthetic Appearance
Lingual placement for a virtually invisible appearance

### Size Identification
Color-coded for easy identification

### Optimum Patient Comfort
*Nitium*® Coil Springs enclosed in expansion modules provide slow continuous force

### No Laboratory Work Required
Select and order appliance by desired finish size

### Less Inventory
Universal sizes for upper or lower arches – no need to carry separate inventory

### Zero Patient Compliance
Appliance allows for up to 2 mm expansion every 6-8 weeks with minimum maintenance

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**Blades**
For ease of insertion

**Expansion Modules**
Slow continuous force

**Color-Code**
Easy size identification
**TransForce² Transverse Arch Developer**

The Transverse Appliance has an expansion module to increase the inter-canine width (expands at the cuspids) and may be used in the upper or lower arch when expansion is required to accommodate crowding in the labial segments, or to correct arch width in constricted arches.

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>COLOR-CODE</th>
<th>TRANSVERSE SIZE: INTER-CANINE FULLY EXTENDED</th>
<th>TRANSVERSE SIZE: INTER-CANINE FULLY COMPRESSED</th>
<th>MAXIMUM AMOUNT OF EXPANSION</th>
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</thead>
<tbody>
<tr>
<td>424-500</td>
<td></td>
<td>Transverse Kit</td>
<td></td>
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</tr>
<tr>
<td>424-526</td>
<td>Red</td>
<td>26 mm</td>
<td>18 mm</td>
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<tr>
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<tr>
<td>424-532</td>
<td>Pink</td>
<td>32 mm</td>
<td>24 mm</td>
<td>8 mm</td>
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</table>

**Transverse Arch Development Planner** 424-500T

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**TransForce² Sagittal Arch Developer**

The Sagittal Appliance is specifically designed for anterior arch development (creates space by advancing the 3x3 labially) and is often indicated for simultaneous use in both arches. The appliance operates on the slide principle and may be used unilaterally or bilaterally to extend arch length.

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>COLOR-CODE</th>
<th>SAGITTAL SIZE: ANTERIOR-POSTERIOR FULLY EXPANDED</th>
<th>SAGITTAL SIZE: ANTERIOR-POSTERIOR FULLY COMPRESSED</th>
<th>MAXIMUM AMOUNT OF EXPANSION</th>
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<tr>
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<td>40 mm</td>
<td>34 mm</td>
<td>6 mm</td>
</tr>
</tbody>
</table>

**Sagittal Arch Development Planner** 424-700T
For more information on our products, orthodontic laboratory services, and educational offerings, please contact us:
Customer Service: 888.851.0533
In the U.S.: 800.547.2000
Outside the U.S.: +(1) 760 448 8600
Canada: CERUM 800.661.9567
To fax an order: 800.888.7244
To fax an order outside the U.S.: +(1) 760 448 8607
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