



**Preformed Clark Twin Blocks®:**  
**One size fits all models**

**Clark Twin Blocks®** with Palatal & Lingual Wires can be assembled in the laboratory for fitting in 20 minutes compared to spending half a day making customised removable Twin Blocks.

The new design is “Patient Friendly” as the palatal and lingual wires do not cover the palate and this allows the tongue freedom to adapt into the palate as treatment progresses.

The breakthrough is based on simple appliances with preformed occlusal blocks and preformed lingual wires that can be placed on models in a trial set up and adapted to the patient’s construction bite. The appliances are then filled with materials suitable for removable appliances or for temporary or permanent fixation to the teeth. An indirect technique eliminates errors of positioning of the blocks in the mouth. Visit [www.twinblocks.com](http://www.twinblocks.com) for further information.

**Instructions for Clark Twin Blocks®**

1. **Impressions & Construction Bite:** Impressions of the patient’s dentition are taken with an intra-oral construction bite to register the mandibular advancement required to correct the malocclusion. The models are mounted on an articulator
2. **Preformed lingual wires:** Place the wires on the models and adapt the width to fit.
3. **The Upper Wire:** Designed to engage mesial to the second premolars and pass distally over the first molars.
4. **The Lower Wire:** Fits mesial to the first premolar and passes distally over the second premolar
5. **Preformed Blocks:** There are 4 preformed occlusal blocks in the kit, one for each quadrant
  - Place the upper blocks on the model over the wires to fit mesial to the second premolar and extending distally over the molars.
  - Place the lower blocks over the premolars with the buccal extension over the canines.
  - The lower block is designed to move mesio-distally to occlude with the upper block and adapt to the construction bite
6. **Indirect Technique:** Customise the Twin Blocks on models. Adapt the inclined planes to 70° or 45° as required, Trim to gingival margins prior to transferring the appliances to the mouth.

## Removable Twin Blocks

- Apply a primer plasticizer before filling the blocks with clear material and adapt on the models as removable appliances. Clear acrylic may be light cured to ensure complete polymerization and removal of free monomer.
- **Temporary Fixation of Twin Blocks: Class 1a materials** are suitable for temporary fixation for up to 1 month to adapt to full time wear to resolve problems of patient compliance.
- **Class 1a Materials:**
  - Isofolan<sup>®</sup>:** Clear Spacer Foils (120 x 0.1 mm) are pressure molded on models to separate plaster from resin. They do not bond to self curing resin.

**Clear Blokker<sup>®</sup> or Durasplint<sup>®</sup>** Class 1a material from Scheu Dental may be used to fill occlusal blocks to customise on models for temporary fixation for up to 30 day

**Triad<sup>®</sup> provisional materials** in a range of dental shades.

## Fixed Twin Blocks

**Class 2a materials** meet the international regulations for fixation in the mouth for an extended period of treatment. **Orthocryl<sup>®</sup> CV Clear**, supplied by Dentaureum is biocompatible and non toxic and may be used to customise occlusal blocks on models prior to fixing in the mouth.

**Dental Fixatives** can be used to fix the blocks to the teeth. For example glass ionomer cements may be used for temporary fixation.

**A range of composite materials** may be used to bond the customised blocks to the teeth, for example **Reliance Excel<sup>®</sup>** is commonly used to fit the bonded Herbst appliance.

**Clark Twin Blocks<sup>®</sup>** do not cover the anterior teeth. This is an important advantage as fixed appliances can be fitted on the anterior teeth and molar tubes may be placed on the buccal surface of the upper blocks. In the lower arch bands may be placed on lower first molars with a utility arch to control the lower incisors.

