

Expansion Appliances

Protect your patient's new smile

Orthodontic Expansion Appliances can be used very effectively by orthodontists and general dental practitioners for treatment of adults and children. The treatment length is relatively quick, assuming the patient is compliant with the appliance and adjusts the screw correctly.

There are many types of expansion appliances, most of which aim to achieve upper jaw widening. Some appliances can also move individual groups of teeth.

Construction requirements

- Upper and lower alginate impressions
- ICP bite registration
- Study models should be taken for pre & post treatment records

Full arch or midline expansion appliances are used for the correction of crossbites and for widening heavily crowded dental arches. They can be used in conjunction with, or before, fixed appliance therapy.

3D expansion appliances are used for full arch expansion, combined with a force applied to push forward the anterior teeth while the posterior teeth move buccally.

Rationale

- Arch alignment where one or both of the jaws have dental crowding
- Creation of space during jaw development for permanent teeth to erupt
- Widening the upper jaw in crossbite cases
- Increase arch space to prevent extraction of teeth prior to fixed appliance therapy