



THE ESSENTIAL TOOLKIT FOR
PRECISION DENTURES



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UNIQUE
DENTAL
SUPPLY

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The Alma Denture Gauge

A unique and essential method to define and reproduce denture tooth position



It helps you to:

- define tooth position by pinpointing the tips of the incisor teeth, relative to the papilla, by means of a vertical and horizontal measurement prescription.
- Transfer information as numerical readings between surgery and laboratory via the Alma Denture Gauge sleeve template.
- Determine the full width of the arch by using the sleeve template.
- Prescribe bite rim sizes.
- Prescribe the position of the teeth for try in.
- Allow the technician to customise each stage of the work to prescription.
- Allow easy checking of the flasking procedure for accuracy.
- Make for easy evaluation of relines, rebases and copy dentures.
- Assist in duplicating techniques where required.
- Allow old worn dentures to be improved and modified where required and not simply to be used as a copying system.

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also be used to help determine the upper lip form which is well perceived by the patient. Equally, the Alma Gauge³ (Fig. 4) may be used to produce an upper rim (ACB) with equivalent dimensions, labially, to previous or current dentures that are considered adequate. In essence, the Alma Gauge comprises a graduated table and a spring-loaded pointer that is also graduated. The denture being 'templated' is placed on the graduated table and the pointer placed in the impression surface of the denture in the middle of the area occupied by the incisive papilla. The distance from the pointer to the incisal tip of the central incisors may be read off the (horizontal) graduated scale on the table. The vertical distance from the pointer tip to the incisal tips is then read off the graduated scale, giving a three-dimensional reading from the incisive papilla to the incisal tips of the central incisors.



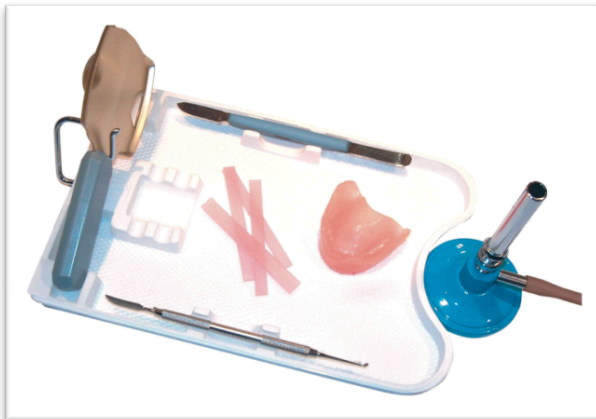
Fig. 4 The Alma Gauge which may be used to record the horizontal and vertical relationships of the incisive papilla landmark on the denture to the incisal points

It has been recommended by BDJ Complete Denture series articles to be used to accurately produce an Aesthetic Control Base*

**McCord and Grant 2000
BDJ*

The Alma Wax Tray System

A combined hotplate and tray system with disposable tray liner to keep work surfaces free from wax and help maintain efficient work areas and procedure.



It helps you to:

- Keep dental surgery work surfaces more organised and tidy.
- Allow convenient positioning of heat source.
- Remove and dispose tray liner easily.
- Easily reach wax knife and carver.
- Use it easily whether you left or right handed.
- Collect falling wax drips onto disposable tray.
- Keep heated hotplate away from tray surface.
- Convenient tray storage.
- Fit the tray into limited working space.

Alma Hotplate

Enables quick and easy shape adjustment of wax bite rims.



The Key Features of the Alma Hotplate are as follows:

- Enables quick and easy shape adjustment of wax bite rims.
- Flat surface for wax rim height adjustment.
- Designed for ambidextrous usage.
- Features a melted wax collection flange and drip point lip.
- Incorporates a heat-insulating handle.
- Features an open upper edge for run off when rim levelling.
- Comfortable to use and made from a lightweight construction.
- The Hotplate is fully autoclavable up to 134°C, adhering to the increasingly strict hygiene standards of the dental surgery.



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The Alma Alginate Syringe

A unique autoclavable product specifically designed to reach difficult areas and assist in the accuracy of taking alginate impressions.



Key Features:

- Inject alginate materials to access remote areas such as around the maxillary tuberosity, the sulci and other regions.
- specifically designed to reach difficult areas and enhance the quality of alginate impressions.
- Ergonomic design fits comfortably into the hand
- Angled body face assists in easy loading of the alginate, within normal alginate working time
- Reduces retch reflex
- High quality plastic offers long product life
- Easily cleaned between uses with materials steam autoclavable to 134C reducing cross infection
- Durable rubber piston and smooth plunger action due to polished inner face.
- Suitable for use with range of commonly used alginates

The Alma Alginate Syringe

A unique autoclavable product specifically designed to reach difficult areas and assist in the accuracy of taking alginate impressions.



Alma Alginate Syringe: a new technique for injecting irreversible hydrocolloid

Dr Robin Gray BDS MDS PHD MFGDP and
Dr Ziad Al-Ani BDS MSc PhD investigate

DENTAL alginate is an irreversible hydrocolloid material universally used by all dentists for taking impressions in most disciplines of dentistry, including fixed, removable and maxillofacial prostheses. When taking impressions using this material, it is of great importance to ensure consistent reproduction of the hard and soft tissues.

During the procedure, however, difficulties often arise due to a lack of material flowing into inaccessible areas such as around the maxillary tuberosity, the buccal and lingual sulci, mylo-hyoid regions, a high vaulted palate and congenital or acquired maxillary or mandibular defects.

In these cases, stock impression trays must be modified with wax or impression compound to enhance access to these areas [Davenport *et al*, 2000 (Figs 1 and 2)].

When taking impressions for partial dentures, a clinician must record the contours of the remaining teeth, the remainder of the arch and the functional

However, using the preformed straight opening of the disposable injection syringe body makes it difficult to completely load the alginate material and it was not specifically designed for this purpose, rather this modification was adapted from a stock item.

Dixon and Clancy (1989) modified a disposable 60cc injection syringe attached to a tip of a saliva ejector using a self-cured acrylic material to inject alginate.

However, their technique was time-consuming and needed considerable practitioner dexterity to modify the syringe before it was ready to be used. The results were not documented.

The current paper describes a new, easy to use and effective syringe which has been specifically designed to assist in injecting irreversible hydrocolloids to aid in enhancing the quality of impressions.

Technique

The Alma alginate syringe comprises three

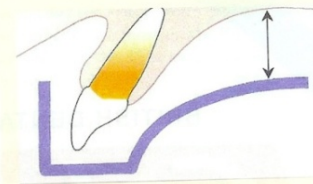


FIG 1a (left) – poor adaptation of the impression tray to the palatal area; FIG 1b – modification of the tray with impression compound [photos taken from Davenport *et al*, 2000]



FIG 2a – Poor reproduction of the maxillary tuberosity and the hard palate in the upper impression and of the buccal sulcus in the lower impression, resulting from an inability of the alginate to record these regions even with use of a special tray



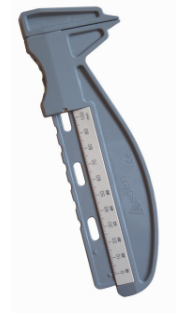
Dental Practice
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Conclusion: “the current paper describes a new, easy to use and effective syringe which has been specifically designed to assist in injecting irreversible hydrocolloids to aid in enhancing the quality of impressions.”

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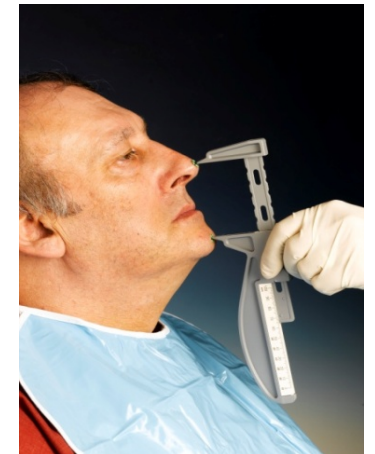
The Alma Bite Gauge

Combines tried and tested principles of measuring facial height and freeway space with superior design technology to guarantee pinpoint accuracy and improved ease of use.



Key Features:

- Accurately measure mouth open, OVD with no error and/or guesswork.
- Reversible for point-to-point, or under nose to under chin measurement.



The Alma Bite Gauge

Combines tried and tested principles of measuring facial height and freeway space with superior design technology to guarantee pinpoint accuracy and improved ease of use.



RESTORATIVE DENTISTRY

Evaluation of Three Devices used for Measuring Mouth Opening

M.Z. AL-ANI AND R.J.M. GRAY

Abstract: Three devices used to measure the range of jaw movement were evaluated: the Willis bite gauge, a metal ruler and the Alma bite gauge.

Dental Update 2004; 31: 346-350

Clinical Relevance: Reliable measurement of vertical dimension, mandibular movement and other dimensions have obvious importance in many disciplines of dentistry.

The reliable measurement of vertical dimension has obvious importance in the discipline of prosthodontics, especially in the construction of complete dentures. In restorative dentistry the ability to take accurate measurements is valuable when, for instance, monitoring tooth surface loss. Measurement of overjet and overbite is important in the discipline of orthodontics. Furthermore, the dental practitioner might need to keep a record of mouth opening if trismus is experienced following a difficult extraction, especially of a lower third molar, or following trauma or when assessing the feasibility of implant placement.

As a part of the diagnosis and treatment of temporomandibular disorders, it is very important to perform a comprehensive examination

of the articulatory system to avoid overlooking any signs or symptoms. The range of jaw movement is the only measurable parameter which can be objectively recorded in relation to a temporomandibular disorder. The maximum mouth opening is important, not only as a record of the severity of symptoms, but also as an indication of the rate or degree of improvement.¹ Accurate and reproducible methods for measuring the range of jaw movement is desirable. Although measurement of a range of TMJ movements are thought of as being reliable, Walker *et al.*, 2000 found that only mouth opening was valid in discriminating between patients with and without a TMD.² They used a ruler to obtain their measurements.

AIM OF THE STUDY

The aim of this study was to evaluate three devices which can be used to measure the range of jaw movement:

- The Willis bite gauge™ (S.S. White, Bristol Road, Gloucester, UK);

- A metal ruler and
- The Alma bite gauge© (Asden Atlantic Ltd, Altrincham, UK).

MATERIALS AND METHODS

Devices used for Measuring Jaw Range of Movement

Willis Bite Gauge

This is a device which consists of two metal arms with a 10 cm scale. The top of the longer arm is at a right angle to the vertical. There is an adjustable arm

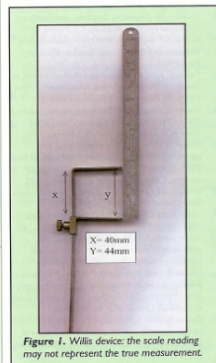
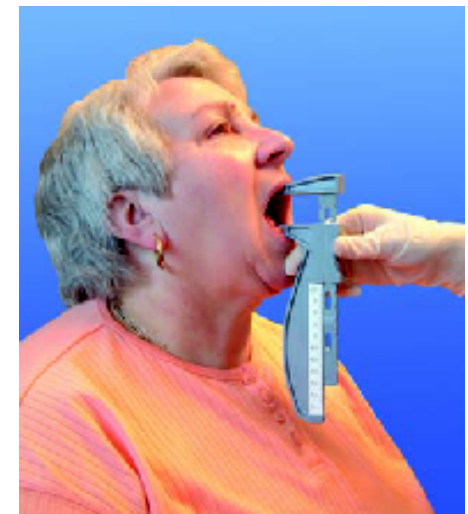


Figure 1. Willis device: the scale reading may not represent the true measurement.

Dental Update 2004

The Alma Bite Gauge has been shown to be more reliable in measuring mouth opening when compared to other devices.



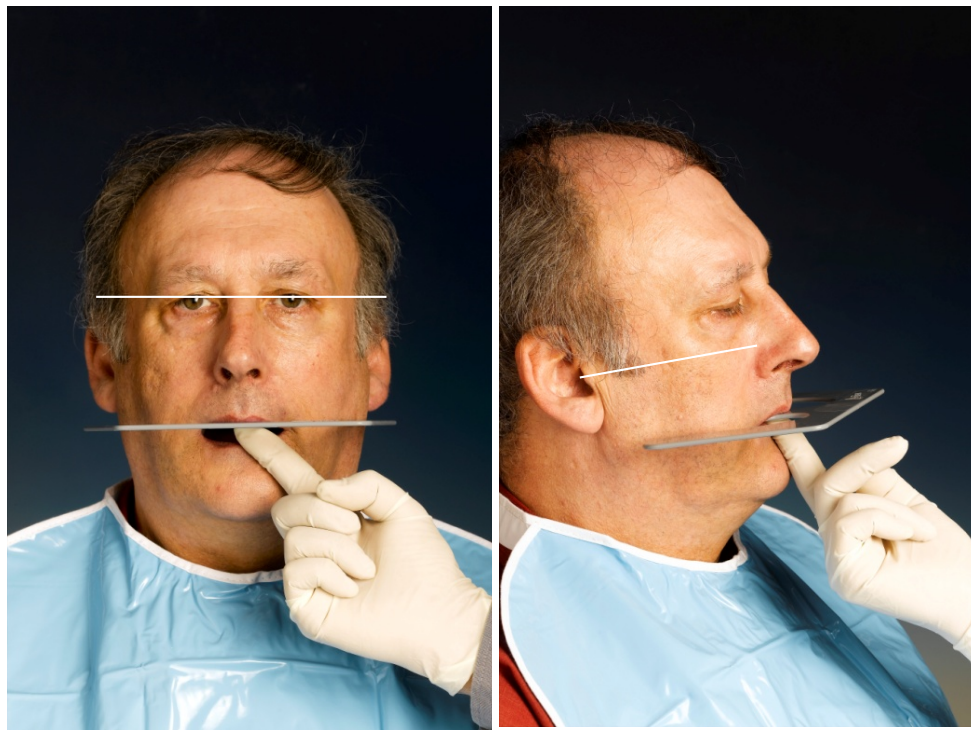
The Alma Bite Plane

A dedicated instrument that can assist in determining the occlusal plane.



It helps you to:

establish the correct orientation of the occlusal plane in order to produce successful dentures.



The Alma Edentulous Impression Tray



Unique anatomical shape for improved accuracy and better dentures.

Key Features:

- Unique anatomical shape based on accurate measurements from existing impression models and consultation with experts in the field.
- Reduced width of anterior region on lower trays to prevent overextended impression
- Finger pads centrally positioned over ridges to ensure ease of use and even application of pressure
- Integrated handle, recessed to give lip clearance
- Large slots ensure good retention of impression material
- Rigid design minimises risk of distortion.
- Range of 3 colour-coded sizes

