BALANCE / BALANCE DE LUXE
Handling of Articulators in Connection with Face Bow
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More Information Material
Balance and Balance de Luxe are non-arcon articulators. They are available in three sizes: 95 – 105 – 116 mm. All parts of the articulator are exchangeable with a wide range of accessories.

The term "arcon" is the abbreviated composition of the words articulatio = joint and condylus = head of joint.

Arcon articulators (Combitec) feature the same construction as the masticatory system: joint socket at the articulator upper part, condyle (simplified in form of a ball) at the articulator base part.

The situation is inverse for non-arcon articulators (Atomic, Balance and Balance De Luxe): joint socket at the articulator base part, condyle (ball) at the articulator upper part.

Advice:
Reproduce the movements at both articulator types with your own hands (e.g. Balance De Luxe = non-arcon articulator / Combitec = arcon articulator).
Description of the Articulator

Balance / Balance De Luxe – all determined technical characteristics (parameters) of this articulator can be exactly transferred by measurements on the patient. Mean value = average of all existing values. This value suffices for 50 – 60 % of all patients.

Intercondylar distance: 100 mm
The distance from condyle to condyle.

Condylar path inclination: 25°
The condylar respectively joint path inclination describes the course of the condyles (head of joint) downwards in sagittal (lateral) direction – at the bottom on a more or less bent path. The recording of a pure protrusion movement (protrusive excursion in the mandible) as well as a related straight line, the so-called reference movement, are necessary for demonstration of the condylar path inclination.
Description of the Articulator

**Bennett angle: 15°**
The Bennett angle is built of the connecting straight line through the initial point and the endpoint of the mediotrusion path (s. drawings M1 and M2) and a parallel of the median plane (= paramedian plane) through the initial point of the movement.

**Incisal guidance: 10°**
Indicates the incisal guidance.
Handling of the Face Bow

Face Bow
A face bow allows the transfer of the static situation of the upper jaw into the articulator.

Individual data allow a precise making and at the same time it saves time by fewer corrections when inserting. The auxiliary devices need more time for impression taking, however, they save a multiple of time during insertion. Therefore, the maxilla model has to be made considering the cranium or by bite registration.

Feed checkbite with Alminax Rite-Bite wax (no. 101 302) and position in the patient’s mouth.

Important:
Please verify that you use a Balance face bow with a Balance articulator (don’t mix up with the Combitec face bow).
The articulator height always has to correspond to the transfer part height so the transfer part can be integrated in the respective articulator with the correct height.

Example:
Balance De Luxe 105 mm no. 203 320
Face bow for Balance De Luxe 105 no. 203 230
Attaching of the Glabella Support to the Scissor Bow

Preparation of the Glabella support and fixing of the scissor bow.
Attaching of the Transfer Part to the Scissor Bow

The lower black screw part is used for the subsequent installation in the articulator, all screws have to be fastened firmly after determination of the masticatory situation.
Conversion of the Articulator

In order to transfer the transfer part into the articulator, the incisal plate as well as the incisal pin has to be removed. Instead of the incisal plate, a transfer plate has to be inserted for fixation of the transfer part.
The two adapter parts are inserted in the articulator top as well as in the upper fixing element of the transfer part.

Unfasten the upper screw only when loosening the transfer part. All other screws remain tightened.
Transfer of the Transfer Parts into the Articulator
Transfer of the Models into the Articulator

Completed transfer of the transfer part into the articulator

Bite Fork Support No. 203 617
Orbital Indicator

(only mounted to Balance De Luxe)

For the previous face bow model, the infraorbital point was the basis for measurement, which was transferred to the orbital indicator. For the updated face bow, measurement is done via the Glabella support.
The ABC of Articulation

• A = ATOMIC
• B = BALANCE
• C = COMBITEC

Three Basic Models with all Accessories