

SURVEYORS & SURVEYING

Definition

- An instrument used in the construction of a removable partial denture to locate and delineate the contours and relative parallelism of surfaces of teeth or other areas on a cast

Parts of surveyor

- Surveying platform , Vertical arm, Horizontal arm, Surveying arm, Surveying tools, Cast holder/Surveying table

Uses of surveyor

- To delineate height of contour on abutment teeth & to determine acceptable path of placement & to record cast position in relation to selected path of placement

Types of surveyor

- Ney surveyor, Jelenko surveyor, William surveyor

Height of contour

- A line encircling a body designating its greatest circumference in a specified plane
- Term coined by Kennedy

Blatterfein's Classification

- Near zone & Far zone
- Devan- Suprabulge & Infrabulge area

Survey lines

- High survey line, Medium survey line, Low survey line, Diagonal survey line

Surveying tools

- Analysing rod, Carbon marker, Undercut gauges(Ney & Jelenko), Wax knife

Tripoding

- Recording the spatial orientation of the cast is done by a procedure called tripoding
- Art portion indexing, Cemented pin method

Block out

- Elimination of undesirable undercuts on a cast
- Parallel blockout, Arbitrary blockout, Shaped blockout

SURVEYING PROCEDURE

Mounting the cast with zero tilt



Positioning the surveying arm



Determine height of contour



Determine location and depth of desirable & undesirable undercuts



Determine parallelism of abutment teeth



Determine path of insertion & tilting done if necessary



Tripoding the cast & transferring the tripod marks



Contouring wax patterns, crowns etc(if necessary)