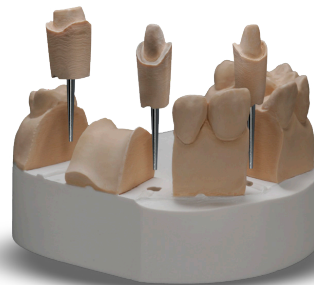


## Ditch and Line the Margin Video Series

**Overview** Full Length Running Time: 1 hr

This disk contains 9 video segments ranging from 3 to 16 minutes covering all the steps necessary to ditch and line the margins of four common types of dies. It includes an introduction describing the types of dies demonstrated (central, cuspid, molar and bifurcated) and explains that dies are trimmed in real time to show the normal time it takes to properly prepare the dies.

The segments can be viewed individually, easily paused or rewound and each segment progresses in logical steps. Important points are frequently detailed at the start of a step and most procedures are accompanied by clear reasons for proceeding in a particular way. Each tooth type is trimmed individually with all the pertinent information repeated for each particular die so that the viewer could easily choose just one tooth of interest and follow the steps through to the end.



**Introduction: Ditch and Line the Margin** 2:00 min

The types of dies are introduced in this segment with reference to using 10X magnification to properly visualize the ditching process. It is explained that in the following segments, each die is trimmed in real time to show the actual amount of time needed to produce this precision trimming.

**Ditch the Central, Cuspid, and Molar** 9:30 min, 8:40 min, 6:30 min

For each particular tooth, the procedure begins with a comparison between the trimmed and untrimmed die. It is suggested that a pin vice be used to hold the die securely during trimming. For each die demonstrated, a specific sized bur is suggested to produce the proper ditch. Rough trimming is accomplished at 35,000 rpm using a light touch. It is stressed that 10X magnification allows the operator to properly visualize the contours and smoothness of the trimming. The trimming then proceeds at 5000 rpm to smooth out remaining vertical lines from the rough trimming step. Once the margin is clearly visible it is shown how to finish defining the margin edge with a discoid instrument.

**Ditch the Bifurcated Posterior** 16:00 min

The unique considerations involved in trimming the bifurcated posterior tooth are described using an uncut tooth to show the anatomical landmarks in relation to the die. It is explained how some areas need to be trimmed with much smaller sized burs to prevent damage to the curved areas of the cut margin. The remaining procedures are reviewed as in the preceding segments.

**Line the Central, Cuspid, Molar and Bifurcated Molar**

3:30 min, 3:50 min, 4:00 min and 5:30 min

For each particular tooth, it is shown how to properly mark the margin edge while holding the die in a die chuck.. Each is marked from the stem side of the die, holding the 0.5 margin liner perpendicular to the margin. It is shown how other angles can result in unclear markings which could ultimately lead to over-contoured restorations. It is also shown how the unique properties of the bifurcated margin can make marking challenging and how to make adjustments to the resulting line using a discoid.

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