

# Clean|Cut

## Reciprocating File System

### Instructions for Use

1. Straight-line coronal and radicular access must be established before proceeding with intra-canal shaping. ALWAYS ensure all files are used in the presence of an irrigating solution.
2. Use a size #10 MANI K file or MANI Glide Finder to verify a glide path to the estimated canal length. The presence of a chelating solution can aid in establishing this glide path.
3. Verify the working length with the aid of a radiograph and/or an electronic apex locator.
4. Expand the diameter of this glide path to the working length to size .15mm-.20mm, using either a manual or dedicated mechanical file system.
5. Initiate the shaping procedure with the primary file (25/.07 red) ALWAYS with the pulp chamber filled with sodium hypochlorite.
6. Using gentle inward pressure, let the primary file passively advance along the established glide path. After advancing/shaping 2-3 mm in any canal, remove and clean the primary file, then irrigate, recapitulate to confirm patency with a #10 MANI K file then re-irrigate before continuing. Inspect the file cutting flutes for deformities at each cleaning.
7. The initial 2-3 passes of the primary file will pre-enlarge the coronal two thirds of the canal.
8. A brushing motion on the outstroke can be used to eliminate coronal interference or to enhance shaping in canals that exhibit irregular cross-sections.
9. Continue using the primary file as outlined in step 6 above to the full working length. DO NOT allow the file to extend beyond the working length as this will result in over-enlarging the apical foramen. Upon reaching length inspect the apical flutes; if they are loaded with dentinal debris, then the canal shaping is finished. If the primary file is loose at length with no dentinal debris in the apical flutes, continue shaping with medium file (35/.06 green) and/or large file (45/.05 white) until the apical flutes are loaded.
10. When the final shape is confirmed, proceed with enhanced final irrigation and disinfection protocols.

**Please Turn Over for Special Care for  
Calcified/Restrictive Canals**

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## Reciprocating File System

### Special Care for Calcified/Restrictive Canals

1. Straight-line coronal and radicular access must be established before proceeding with intra-canal shaping. ALWAYS ensure all files are used in the presence of an irrigating solution.
2. In restrictive canals, use a size #06, 08, and 10 MANI K file, or MANI Glide Finder in the presence of a chelator to negotiate to the terminus of the canal. Gently work these files until it is completely loose at length. The presence of a chelating solution assists in this process.
3. Establish working length, confirm patency and verify the glide path. Verify the working length with the aid of a radiograph and/or an electronic apex locator.
4. Expand this glide path to at least diameter size .15mm- .20mm using either a manual or dedicated mechanical file system.
5. Initiate the shaping procedure with the primary file (25/.07 red) ALWAYS with the pulp chamber filled with sodium hypochlorite.
6. Using gentle inward pressure, let the primary file passively advance along the established glide path. After advancing/shaping 2-3 mm in any canal, remove and clean the primary file, then irrigate, recapitulate to confirm patency with a #10 MANI K file then re-irrigate before continuing. Inspect the file cutting flutes for deformities at each cleaning.
7. The initial 2-3 passes of the primary file will pre-enlarge the coronal two thirds of the canal.
8. If the primary file does not progress passively use the small file (20/.07 yellow) in one or more passes to working length and then use the primary file to working length to optimize the shape in the manner outlined in Step 6 above. DO NOT allow the files to extend beyond the working length as this will result in over-enlarging the apical foramen.
9. When the final shape is confirmed, proceed with enhanced final irrigation and disinfection protocols.