

Technique Guide:

Minimally Invasive System

According to Frank J. Milnar DDS, AAACD



BRASSELER
USA®

The Minimally Invasive System – According to Frank Milnar, DDS, AAACD

Ultraconservative dentistry represents a great step forward for the dentist, the profession and especially the patient. It involves the early detection and complete elimination of all accessible and non-accessible carious material from the tooth. Untreated caries can be extremely and rapidly destructive. The earliest interception of decay maintains total dental health and increases the likelihood of the restored teeth lasting a lifetime.

The Minimally Invasive System, utilizing Micro-Prep diamonds from Brasseler USA, is an approach to ultraconservative dental treatment. The shape and size of the burs are designed specifically for the purpose of treating pit and fissure lesions. These proprietary diamonds allow the dentist to control the bur tip to cut just below the DEJ with minimal intervention. The unique shapes of the burs allow the cutting tips to encounter very few dentinal tubules, and have been designed to minimize heat build-up and vibration. Since the use of Micro-Prep diamonds are restricted to enamel, patient discomfort is minimized and need for local anesthetic eliminated. The design of the Micro-Prep diamonds allows for less invasion than a regular 330 bur.



Surface lesions are prepared using 838M.007 diamond



Margins are beveled using the 8392.31.016 mosquito diamond



Pit and fissure lesions are prepared using the 830RM.009 diamond



Final preparation of all surface, pit and fissure lesions



Interproximal lesions are prepared using the 830RM.009



The 8801.014 or 012 is ideal for large occlusal lesions and tunnel preparations



Margins are beveled with 8392.012 after minimally invasive preparation



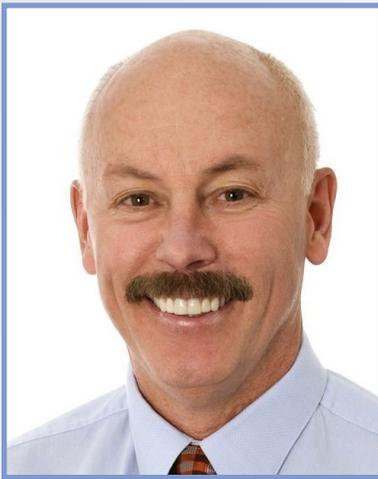
All pre-prepolishing is completed using the FLDC5M medium green polishing wheel



All final polishing is completed using the FLDC5 fine gray polishing wheel



Final Minimally Invasive Restorations



Frank J. Milnar DDS, AAACD

Frank J. Milnar DDS, AAACD is a graduate of the University of Minnesota, School of Dentistry. He is an Accredited member of the American Academy of Cosmetic Dentistry and a Board Examiner for Accreditation. Dr. Milnar maintains a full-time practice in St. Paul, Minnesota emphasizing appearance related dentistry. He has published numerous articles about the direct placement of composites, shade selection and porcelain materials and is on editorial review boards for dental journals. Dr. Milnar is co-founder of the Minnesota Academy of Cosmetic Dentistry and has lectured extensively within the U.S. Armed Forces as well as internationally on the subject of direct composite restorations, shade selection and porcelain materials. He has been voted “Top Dentist” and voted into the “Top Dentist Hall of Fame” for the last five years by his peers in the *Minneapolis/St. Paul Magazine*. He has been voted by *Dentistry Today* as one of the top 100 dentists contributing to dental education. Most recently, Dr. Milnar was nominated to the University of Minnesota School of Dentistry Continuing Education Advisory Board.



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Figure No.	889M	838M	830RM	830M	8801	8801
Head Size ($\frac{1}{10}$ mm)	007	007	009	012	012	014
Cutting Length (mm)	2.5	2.5	2.5	2.5	—	—
Grit	Medium	Medium	Medium	Medium	Fine	Fine
Shank Type	FG	FG	FG	FG	FG	FG
Quantity	1	1	1	1	1	1

			
Figure No.	8392	FLDC5M	FLDC5
Head Size ($\frac{1}{10}$ mm)	016	140	140
Cutting Length (mm)	5.0	1.6	1.6
Depth Cut (mm)	—	—	—
Grit	Fine	Medium	Fine
Shank Type	FG	RA	RA
Quantity	1	1	1