



PRECAUTIONS FOR USING DIAMOND FLYWHEELS

Diamond flywheels are sensitive and delicate tools that are prone to breakage. Adequate care must be taken during use to prevent damage and ensure long life.

SPEED & MOTOR The recommended speed for diamond flywheels is 30,000 - 35,000 RPM. The right selection of motor and handpiece is crucial in operating within the required speed range. *It's acceptable to use a lower speed motor (eg. Foredom CC/R series 1/10 HP flexshaft at 18,000 - 20,000 RPM) if coupled with a speed increasing handpiece (eg. Foredom #35).* Regardless of motor type, speed must remain consistent during operation. Variations in speed can cause friction, resulting in the diamond cracking, chipping or breaking apart.

STEADY HAND Proper use of diamond flywheels requires practice and experience to keep a steady hand. Even small movements of the hand during cutting can cause damage to the diamond.

SECURED OBJECT The object to be cut should be securely held in a clamp or a tool holder, so that it does not move during cutting with the diamond flywheel.

TIMING & PRESSURE The diamond flywheel requires only a fraction of a second and no hand pressure to produce a brilliant cut. Do not hold the tool on the object for an extended period of time. A very slight touch is sufficient to produce a smooth cut. If excessive pressure is applied, the diamond may be damaged.

PROTECTION OF THE DIAMOND EDGE Care should be taken to prevent the diamond edge of the tool from being damaged when not in use. Always keep the flywheel covered and protected when not in use.

PRACTICE TOOL It is recommended that beginners practice cutting with a carbide tool prior to using diamond flywheels. Practice minimizes the risk of damaging the diamond flywheel and results in smoother, brighter cuts.

SAFETY Always wear good eye protection gear while using diamond flywheels. If the diamond edge breaks or is damaged, do not attempt to fix it. Operating a repaired flywheel can result in serious injury.