

# Rotary and bur block holder cleaning, disinfecting, & sterilization procedures

- 1) Remove any visible contamination.
- 2) Treat with Aldehyde-free disinfectant. Do not use alcohol on rubber/silicone polishers. Do not use alkali/hydroxide chemicals as they will corrode metal surfaces and damage rubber/silicone.
- 3) Rinse with water and dry.
- 4) Steam Autoclave minimum 20 minutes at 121 degrees Celsius (250 degrees Fahrenheit).
- 5) Store dry and packaged without contact to possible contaminants/surfaces.
- 6) Inspect and repeat entire process listed above after each use if re-use is intended. Do not re-use damaged or otherwise altered rotary instruments.

## Rotary instructions for use

- 1) Always wear eye protection.
- 2) Always wear a surgical mask to avoid inhalation of particles.
- 3) Do not exceed recommended RPM speed of rotary instruments.
- 4) Insert the rotary instrument completely into the chuck of the handpiece without excessive use of force and ensure that they are secure.
- 5) Minimum of 50 ml/min water supply required to ensure cooling of the preparation surface
- 6) Additional external cooling is needed for Instruments with a total length of 19 mm and greater, and a diameter of 1.8 mm of working surface of instrument.
- 7) Adequate surface wetting must not be impaired by suction extraction device. Note also that deflection of the water coolant jet can also cause heat related damage.
- 8) The recommended applied contact pressure range is 0.3 - 2 Newtons.
- 9) Avoid excessive contact pressure from angled orientation of instrument at contact of surface.

## Rotary Instruments Recommended RPM speeds

Diamond Burs		
Φ size (mm)	Recommended R.P.M:	MAX R.P.M:
0.8-1.1	75,000-150,000	450,000
1.2-1.6	60,000-110,000	450,000
1.7-2.0	45,000-85,000	300,000
2.1-2.3	40,000-75,000	300,000
2.4-2.6	20,000-45,000	160,000
2.8-3.0	25,000-45,000	140,000
3.3-3.8	20,000-40,000	120,000
4.2-5.5	17,000-30,000	90,000

	Recommended R.P.M:
Rubber Diamond Polisher (RDZ-)	7,000-12,000 RPM
Rubber Polisher (RA-)	7,000-12,000 RPM
Silicone Diamond Polisher (SDR-)	7,000-10,000 RPM
Silicone Polisher (SCR-, SA-)	7,000-12,000 RPM
Ceramic Diamond Grinder (CDZ-)	8,000-12,000 RPM
Ceramic Grinder (CA-, ACA-)	8,000-12,000 RPM