

INSTRUCTIONS FOR USE AND SAFETY INFORMATION

rev. 09/24

acurata GmbH & Co. KGaA instruments are intended for use in the dental and dental technical field and may only be used by dental technicians, dentists, or other suitably qualified professionals who, based on their training and experience, are familiar with the proper use of the products.

GENERAL INSTRUCTIONS FOR USE

Only technically flawless drives should be used. Insert the instruments carefully and as deeply as possible, and bring them up to operating speed before applying them to the workpiece. Observe the maximum permissible rotational speeds stated on the packaging labels. Contact pressure must be kept low and must not exceed 2 N. Excessive pressure can damage the instruments. Avoid levering or tilting movements to prevent breakage. Blunt, bent, or damaged instruments must be discarded immediately and must not be reused. Improper use increases the risk of injury, accelerates wear, and leads to poor work results. Avoid contact with H₂O₂ (hydrogen peroxide) and do not exceed the recommended immersion times in cleaning and disinfecting solutions. Secure instruments against aspiration (e.g., rubber dam, safety chain, or thread attachment). Ensure adequate cooling to prevent thermal damage. When using polishers and brushes, always polish in circular movements. To achieve a high-gloss finish, use all polishers in a multi-step polishing system in the specified order. Always wear eye protection (safety goggles). Use respiratory protection (mouth and nose) and an extraction system for dental laboratory work. Touching the working parts of the instruments may cause injury.

Important note on hazardous substances: Products identified with numbers starting with 500 and 510 contain more than 0.1% by mass of cobalt, which is classified as a Category 1B CMR substance (possibly carcinogenic, mutagenic, or toxic to reproduction). Studies have shown that the quantities of cobalt released from medical devices used as intended are so low that they do not pose a health risk and no protective measures are required.

Maximum rotational speeds: The limits stated on the packaging label apply. The optimal speed for all instruments, depending on the material being processed, is typically 40–50% of the maximum speed indicated. The specified maximum speed is a theoretical value based on the geometry of the instrument. The selection of the actual working speed depends on the material, the drive, and the applied pressure, and is at the discretion of the user.

Maximum rotational speeds – reference table

FG instruments (ISO 314) ISO Ø:

005–016 max. 450.000 min⁻¹ • 018–021 max. 300.000 min⁻¹ • 023–031 max. 160.000 min⁻¹ • 033–055 max. 120.000 min⁻¹

Handpiece and contra-angle instruments (ISO 104 / 204) ISO Ø: 003–023 max. 50.000 min⁻¹ • 025–040 max. 40.000 min⁻¹ • 045–060 max. 30.000 min⁻¹ • 060–070 max. 25.000 min⁻¹ • 070–250 max. 25.000 min⁻¹ • 300–380 max. 20.000 min⁻¹ • 450 max. 15.000 min⁻¹

Polishing instruments all ISO Ø: max. 5.000–10.000 min⁻¹

Important note for sintered diamonds: Before first use, clean the sintered diamond instruments with a wet cleaning stone (No. 807 000 750), and subsequently as required (depending on contamination). Binder abrasion may cause discoloration when processing ceramics; due to the hardness of the bond and the diamond concentration, this discoloration is largely minimized. We recommend a final surface cleaning by sandblasting or brief grinding with silicon carbide stones (green, ceramic-bonded).

Important note for diamond discs: All minimum 10.000 min⁻¹ • 300 – 380 max. 20.000 min⁻¹ • 450 max. 15.000 min⁻¹

Refer to the packaging label for permissible speeds. Optimal working speed for all instruments, depending on the material, is generally 40–50% of the maximum speed indicated.

 Always operate with light pressure = 1N. Wear safety goggles!

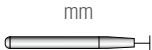
Liability: The user is obliged to comply with the general instructions for use. The use of the products is under the responsibility of the operator and user and is subject in particular to the provisions of the German Medical Devices Operator Ordinance (MPBetreibV). Any contributory negligence on the part of the user that leads to damage results in a reduction or exclusion of liability on the part of acurata GmbH & Co. KGaA. This applies especially in cases of non-compliance with the instructions for use and safety information or misuse of the products.

Important note for brushes: Brushes are intended for single use only.

 If brushes are reprocessed after use, cleanliness of the products cannot be guaranteed.

Storage: Store in a dry, dust-free place, protected from direct sunlight and at room temperature.

SHAFT TYPES

	ISO	Ø mm		mm
FG	314	1,6		19,0
RA	204	2,35		22,0
HP	104	2,35		45,0

The total length of the instruments may vary depending on the working part and neck length.

