An ultrasonic device with a focus on endodontics

Why is an ultrasonic device necessary in endodontic treatments? Today’s endodontists are aware of the advantages the ultrasonic technique provides for their endodontic treatments and this has led to an increase in demand from practices that are either interested or specialised in endodontics. Therefore, VDW has developed an ultrasonic device especially for root canal treatments: the VDW.ULTRA.

The benefit of the ultrasonic irrigation is currently a hot topic: vibrations create micro air bubbles in the irrigating solution, which implode and remove tissue and biofilm. Dentine tubules and lateral canals are cleaned more effectively, thus reducing the risk of infection significantly. As mere mechanical preparation reaches only about 70 per cent of these areas, effective irrigation is crucial for a successful root canal treatment.

VDW.ULTRA specifically offers a low power mode for this application. Most interesting is the passive ultrasonic irrigation with smooth wire irrigation files, which avoid uncontrolled preparation during the irrigation phase. Additional applications, such as refinement of the access cavity, retreatment as well as removal of metal posts and fractured instruments, can also be carried out. The VDW.ULTRA is practical and convenient for high-comfort treatments.

Thanks to the patented auto-balance-system ensuring reliable automatic regulation, the VDW.ULTRA is able to deliver a constant and efficient performance for every application. The piezo-electric handpiece weighs only 50g and can be sterilised in an autoclave. Classic periodontal and scaling applications can also be carried out efficiently.

VDW provides a high-quality, tailor-made tip assortment for use in endodontics: irrigation files for thorough ultrasonic disinfection and the removal of biofilm, diamond-coated tips for efficient refinement of the access cavity, fine tips made of the innovative titanium-niobium alloy for delicate retreatments, as well as a robust tip to remove metal posts at high intensity.