Press Release

DentaPort ZX with OTR – fast, safe, gentle

With its OTR function (Optimum Torque Reverse), Morita sets new standards for rotating root canal preparation

Precise measurement, safe preparation, high-performance polymerization – the modern triad of rotating root canal preparation has got a new name: DentaPort ZX Set OTR. The modular measurement and preparation system is fitted with the innovative OTR function (Optimum Torque Reverse) – this reduces file breakage to a minimum and helps protect the natural tooth substance. As a traditional provider of solutions, Morita is once again setting a standard for mechanical root canal preparation.

Teeth are of incomparable valuable for patients, which is why maintaining this precious asset has absolute priority. This demand and the objective of protecting a tooth's healthy substance during endodontic treatment to the best possible extent are met by three letters with great effect: OTR (Optimum Torque Reverse). The OTR function was integrated into the current third generation of the DentaPort TriAuto OTR endomotor – with which, in combination with the DentaPort Root ZX (apex localization) and the LED module (polymerization), it is possible to obtain precise measurements, careful preparation and rapid finishing.

OTR – The new standard for rotating root canal preparation

The ATR function (Auto Torque Reverse) has already been installed for the first time on the DentaPort TriAuto ZX preparation motor and, like this, the new OTR function also uses the principle of torque-provoked rotational direction reversal: With rotating root canal preparation, mechanical influences act as torque to counteract the drive torque of the file which could break as a result of the arising torsion. OTR relieves the strain on the file by changing the rotational direction upon

reaching a specific torque level. After a reverse turn of just 90° it reverts back to the cutting direction. The advantage: this procedure is only repeated after a further turn of 180° if the file is under any strain. If not, it continues the cutting process. DentaPort ZX Set OTR always knows precisely what needs to be done – because it starts rotating as soon as the file penetrates the root canal, and stops again when it is removed. And the integrated safety functions such as OTR come into play as soon as the file rotation approaches individual set torque limits. From an economic point of view, the OTR function also optimizes the treatment duration because the files are primarily driven in the cutting direction and debris is transported away coronally. A further bonus point is the flexibility: Along with the latest file generations, the practitioner can also still use the standard ranges, as a result of which the DentaPort ZX Set OTR continues to be a universal system for virtually all file systems – but with greater precision, safety and efficiency.

DentaPort – combine as required according to demands

The basic module of the DentaPort system is formed by the stand-alone apex locator DentaPort Root ZX. High measurement precision, a comfortable control panel with large color display and precise visualization of the file position, including acoustic monitoring, are some of the distinct features of the unit. The Root ZX is arguably the most frequently sold apex locator worldwide with a documented measurement precision of 97.5 % - the best of its class. The DentaPort Root ZX, however, is more than just an apex locator: the module can be upgraded into an intelligent preparation motor at any time with the DentaPort TriAuto OTR endomotor. This already monitors the file position visually and acoustically during canal enlargement and maximizes safety for both patient and practitioner. The new contra angle with its smaller head is a guarantee for better vision, and the integration of the file electrode into the housing provides a greater working length which, last but not least, contributes to a pleasant workflow with the primarily rotating preparation. Finally, the process moves on conveniently to a rapid finish: Transition to adhesive treatment is achieved easily with the polymerization handpiece. The LED module and the motor handpiece can be exchanged quickly. The large display shows the parameters clearly and a pleasantly small instrument head allows easy access, whilst the aspheric lens ensures secure and deep polymerization. The high-powered lamp can be operated as required by hand- or

footswitch. You can find further details of the innovative solutions from Morita for endodontics at: www.morita.com/europe.

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Über Morita:

Die Morita-Gruppe zählt zu den bedeutendsten Herstellern von medizinisch-technischen Produkten. Das japanische Traditionsunternehmen mit Vertriebs-gesellschaften in Europa, USA, Brasilien, Australien und Afrika weist ein breites Sortiment auf. Führend in der Röntgendiagnostik und der Endodontie bietet das Produktportfolio leistungsstarke bildgebende Systeme bis hin zur 3-D-Volumen-tomographie, Behandlungseinheiten, Turbinen, Hand- und Winkelstücke, Instrumente sowie endodontische Mess- und Präparationssysteme. Mit ausgeprägtem Qualitätsdenken und kontinuierlicher Forschung orientieren sich weltweit mehr als 2.000 Mitarbeitern an den Bedürfnissen von Anwendern und Ärzten. So lebt der Geist von Junichi Morita weiter, der das Unternehmen im Jahr 1916 gründete. Morita befindet sich mittlerweile in dritter Generation in Familienbesitz unter Leitung von Haruo Morita.