

# DEFINITIVE® LED UNIT

Compact control unit for electric micromotor



With this new compact control unit it is now possible to take advantage of the powerful brushless micromotor technology and upgrade an existing dental chair simply and efficiently.

Just position it over your chair's tray, plug in power supply, connect your existing turbine hose connector and you are ready to work!

You can choose your stable operating speed, variable from 1000 to 40000 RPM, and the direction mode. Then you can start the electric micromotor by means of the existing unit's foot pedal.



Rear connections



DEFINITIVE®LED  
brushless electric micromotor

# MICRA®L

higher power and compactness

The high-speed turbine with small-size head has now been improved. The turbine now features more compactness and higher power level. The reduced head length now allows an easier access to the most hidden teeth.



# INSERTS

Special inserts for PiezoLED® scaler



The TKD series of ultrasonic inserts is now available for use with the KaVo® PiezoLED® scaler. Each insert is delivered complete with one DYNO dynamometric wrench.



# NEW PRODUCTS 2019



QUARK®CAL/STL

NUCLEUS®LED

BRAVIA®XL special edition

DEFINITIVE®LED UNIT

MICRA®L

NEW PRODUCTS 2019 / Cat.095UK/2019



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UNI EN ISO 13485



SIMPLIFYING DENTAL MOTION



## QUARK® CAL / STL

compact contra-angle and straight handpiece

New contra-angle and straight handpieces with ergonomic design, available with or without a high-efficiency fibre-optic glass rod.

The reduced weight and its perfectly balanced shape provide good tactile grip whereas the reduced head size facilitates access to the molar area.

The handpieces feature smart chrome coating and are equipped with high-precision ball-bearings and gears which allow superior reliability and high resistance to wear and corrosion.

The head locking mechanism is made for CA burs (Ø 2.35 mm) and the connection is standard so that handpieces can be connected to any brand of micromotor. The match with NUCLEUS®LED and DEFINITIVE®LED micromotors is particularly elegant.



## NUCLEUS® LED

special brushless electric micromotor for endodontic procedures



NUCLEUS®LED is the new innovative brushless electric micromotor which has been especially developed for endodontic procedures.

High flexibility and high movement precision are the key features offered by this new device.

Micromotor, whose speed ranges from 100 to 40000 RPM, has got LED illumination and standard ISO coupling which allows connection to any handpiece with fibreoptics and internal spray.

The electric micromotor does not require any maintenance and is equipped with a blue non-return O-ring for spray water. Furthermore, micromotor can be sterilized in autoclave up to 134 °C / 2 bar.

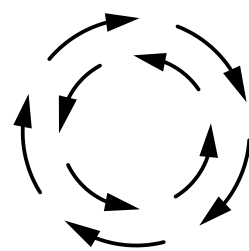
Precise Torque control, Auto-Reverse and Rocking/Reciprocating functions are also special features available with the new BMC60 electronic board. During reciprocation, the connected endodontic file is first driven in a cutting direction and then it is reversed so as to release. As the angle in the cutting direction is greater than the angle in the reverse direction one complete rotation is completed in several reciprocating movements and therefore the instrument progresses towards the apex.

Endodontic procedures carried out with reciprocating movements, reportedly, have numerous advantages over traditional ones.

A micromotor for Implantology is also available.



BMC60 special motor drive



Reciprocating movements



NUCLEUS®iLED micromotor

## BRAVIA® XL special edition

with selected high-performance components



On occasion of its 50<sup>th</sup> anniversary, TKD presents this special high-speed high-performance turbine which is the result of many years of know-how and passion for micromechanics.

**HIGHER POWER:** The improved drive air nozzle geometry and the use of a re-designed impeller now produce a tangible higher power level: **27 W !**

**TITANIUM BODY:** The main part of the handpiece is made in solid titanium with a non-slip surface; light, strong and absolutely biocompatible.

**ADVANCED SPINDLE:** The new wear-resistant spindle with advanced clamp-pad technology, avoids bur eccentricity and ensures a safe and long-lasting bur retention; only the perfectly-balanced rotors are used on this turbine.

**SUPERIOR CERAMIC BEARINGS:** Only the very best high-performance ceramic ball bearings are used on this turbine; reliability and stability are pushed to the highest levels.

**MULTI-JET SPRAY:** Four spray ports allows the most ideal cooling effect on the entire operation area.

**CELLULAR OPTIC SYSTEM:** The used cellular glass optic system allows a highly-efficient LED illumination of the operation area.

**DOUBLE LUBRICATION SYSTEM:** Even this turbine can get the advantage of the double lubrication possibility, i.e. by means of ordinary handpiece lubricating oil or by means of the special LubriONCE® lubricator.

