

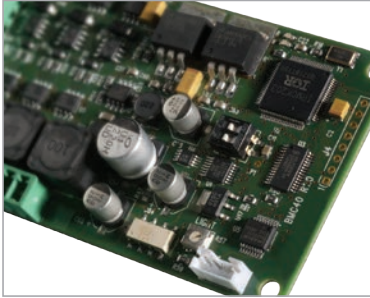
Built-in studio brushless micromotors



Product code PM509F

Compact, lightweight, silent and perfectly balanced, Definitive LED micromotors are powerful new maintenance-free three-phase brushless devices. Intelligent winding design ensures greater efficiency and higher performance despite the extremely short length of these units. These micromotors incorporate an internal spray circuit and can be used with all straight or contra-angle handpieces with internal spray and optic fibre. Advanced LED technology generates a higher level of

brilliance and guarantees a stable, 25,000 lux illumination of the operating area irrespective of speed. The innovative LED incorporated in the micromotor produces a brighter and more uniform light, similar to natural daylight, and ensures clearer and more defined visibility during prophylactic work. The micromotor also incorporates a non-return valve for spray water to eliminate the risk of contamination of the dental unit's water circuit.



A special vector speed control function optimises efficiency and enables the micromotor to maintain a constant high torque throughout its speed range. Speed therefore remains constant even if the instrument is subjected to high torque loads. The compact electronic control card is composed entirely of SMT components. Dimensions: 98 x 58 mm. 32 VDC +/- 5% - 500 mA.

Product code of control card PM505.2



Noble steel body. Brushless motor. Internal spray. Maximum torque: 3.5 Ncm. Weight: 90 g.



Product code of micromotor MJ505TL

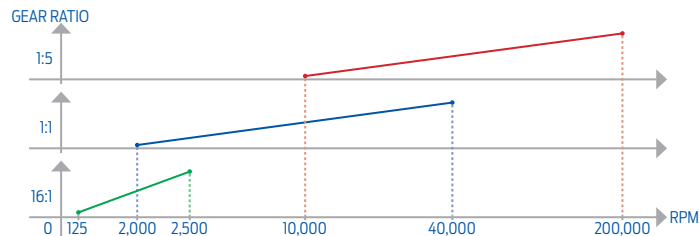
Product code of 6-way cord PC668

Product code PM509F: complete kit (cord, micromotor, control card, control unit).



The easy to use and intuitive control unit automatically recognises which instrument is in use. It also lets you adjust micromotor torque and maximum speed, and even reverse direction. Provided the gear ratio of the handpiece has been correctly set, the unit automatically calculates instrument speed and displays it on the LCD display. Scalers can be set to work in endodontic, periodontic or scaling mode, and vibration intensity controlled to suit the patient's sensitivity and the hardness of the gingival tartar.

Product code of control panel DE1.032.1



Intrinsic features



LUX OPTIC FIBRES

Top quality optic fibres ensure efficient light transmission from coupling to handpiece, with a low refractive index. The optic fibres in MK-dent handpieces transmit light at over 40,000 lux – 10% better than most common handpieces.



EYE SAVER LED

This symbol indicates the presence of a LED light in the coupling. The LED produces a natural light that does not disturb the eyes; colour temperature is 5500 K, the most suitable value for good visibility.



LIGHT

This symbol indicates the presence in a coupling of a halogen bulb or other provision for light transmission.



SAFETY BUTTON

Safe and easy to use, the MK-dent Push Button system guarantees quick and easy bur replacement while also ensuring secure bur locking when head is in use.



4-NOZZLE SPRAY SYSTEM

MK-dent's patented 4-nozzle spray system ensures constant and efficient cooling of the handpiece in all directions.



SPRAY SYSTEM

MK-dent's standard spray system ensures constant and efficient cooling of the handpiece in all directions.



CLEAN SCREEN

A built-in non-return valve ensures greater safety and improved hygiene. The valve completely isolates the instrument and only permits an outward flow. Because internal components cannot become contaminated by back-flow, total hygiene and sterility are guaranteed.



SPINDLE CONTROL

A carbide bush inside the spindle ensures concentricity. This important solution reduces bush wear, resists high pressures on the handpiece during work and improves bur stability.



CERAMIC BALL BEARINGS

The balls are the most important parts of any bearing. Ceramic balls deliver improved bearing action as they are more rigid, more resistant to deformation, and more silent running. On top of this, because they do not oxidise, they also degrade lubricant more slowly.



PRESSURE CHECK

Prime Line high speed handpieces with KaVo® couplings incorporate a pressure reducer. If the handpiece pressure exceeds 2.8 bar, this device cuts in automatically to safeguard mechanical parts, ensuring an extended working life.



NON-RETURN VALVE

A built-in non-return valve ensures greater safety and improved hygiene. The valve completely isolates the instrument and only permits flow in one direction. Because internal components cannot become contaminated by back-flow, total hygiene and sterility are guaranteed.



MAX SPEED

This symbol indicates maximum rotation speed.



REVERSIBLE

This symbol represents reversibility. All our electrical micromotors are electronically reversible. Our air-driven micromotors can be reversed manually by means of a ring nut on the body.



EASY REMOVAL

This symbol identifies instruments in which the micromotor's external shell can be removed for sterilisation in an autoclave at 135°C. All our micromotors can also be disinfected with Metasys Green & Clean WD alcohol-based disinfectant wipes, as illustrated in the "Disinfection and lubrication products" section.



TOP QUALITY

Our MK-dent handpieces are made exclusively from top quality materials and are CE 0123 certified. They therefore maintain their original appearance and functionality even after numerous washing cycles. Our handpieces can be disinfected and sterilised in an autoclave at temperatures up to 135°C.
