

pneumatic micromotor

Thanks to its improved rotor and rotation chamber, which is coated with special hard material, micromotor now features higher power and reliability yet keeping smooth and quiet running. Its greater performance allows torque to keep extremely high and stable in the whole speed range, even under sustained load.

Micromotor has got internal spray system which fits any E-type contra-angle or straight handpiece.

Micromotor is available with standard 4-hole connection or rapid connection (Multiflex®-compatible).

Multiflex® is a registered trademark of Kaltenbach & Voigt GmbH, Germany.



Speed can be adjusted in both forward/reverse drive by means of the rotating nut.



The rapid connection, together with the GYROFLEX® rapid coupling, allows the instrument to turn freely and smoothly throughout 360 degrees.

TECHNICAL DATA

Product:	DEFINITIVE® - DEFINITIVE®LED	VORTICE®		
Reference:	REF 600.00 (without light) REF 602.00 (with light)	REF 224.40 (4-hole connection) REF 224.52 (rapid connection) 4000 ÷ 20.000 rpm		
Rotation speed:	1000 ÷ 40.000 rpm			
Maximum torque:	3.5 Ncm	2.7 Ncm		
Spray system:	E-type internal	E-type internal		
Light source:	high-brightness white LED	-		
Air pressure:	1 ÷ 3 bar or 14.5 ÷ 43.5 psi (cooling)	2.4 ÷ 3.0 bar or 34.8 ÷ 43.5 psi (drive)		
Maximum air consumptio	n: 26 NI/min	63 NI/min		
Weight:	88 g	89 g		
Standard conformity: ISC	14457, ISO 3964, CEI EN 60601-1, IEC 80601-2-60	ISO 14457, ISO 3964, ISO 9168		
Guarantee:	2 years	2 years		

Product:	DUOPAD®	BMC40	CONV24	
Reference:	REF 392.00	REF 390.00	REF 394.00	
Input voltage:	15 Vdc ± 20%	32 Vdc ± 10%	24 Vac ± 10%	
Maximum current:	22 mA	6 A (10 s)	8 A	
Sizes:	73x117x24xmm	98x58 mm	60x50 mm	
Standard conformity:	CEI EN 60601-1	CEI EN 60601-1	CEI EN 60601-1	
	CEI EN 60601-1-2	CEI EN 60601-1-2	CEI EN 60601-1-2	
Guarantee:	2 years	2 years	2 years	

Product:	PPOT
Reference:	REF 395.00
Input pressure:	0 ÷ 3 bar or 0 ÷ 43.5 psi
Guarantee:	2 years









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DEFINITIVE TKD Made in Italy





brushless micromotor

Without brushes and without bulb, DEFINITIVE®LED is the powerful electric motor which does not absolutely require any maintenance.

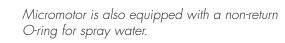
Compactness, long-life illumination, higher reliability and reduced noise are but a few of the various features offered by this special electric motor.

The innovative design of the windings and rotor allows high efficiency and superior performance, yet keeping total length of the motor very short.

Once coupled to the new DEFINITIVE®LED electric motor, any E-type dental handpiece with fiberoptics can immediately get advantage of the LED technology which, simply and efficiently, allows natural daylight quality illumination of the operating area and produces a superior uniform light pattern.

With LED technology you can forget any bulb changing.

The innovative LED illumination integrated in the electric motor produces higher brightness thus assuring clearer vision during operation.





Smaller in size than many other micromotors, DEFINITIVE® is extremely light-weight and perfectly balanced.



Connection of the motor to the supply silicone hose has been further simplified thanks to the use of a electrified 4-hole connection.



540°-swivelling connection through the special silicone hose



	100 10	000 400	00 50	000 100	000 40	000 20	0000
HP 10:1	100 ÷ 4	000 rpm					
HP 1:1			100	0 ÷ 40000	rpm		
HP 1:5					5000 ÷ 2	200000 rpm	



BMC46
motor drive

The special BMC40 electronic control board has been designed to be installed into virtually any dental units with very simple wirings.

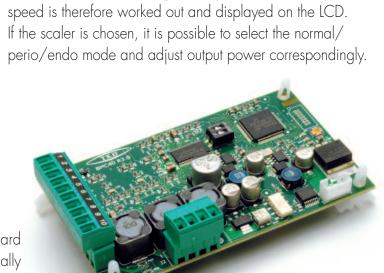
Besides various analogue control signals, higher flexibility can be achieved by the RS232 serial interface and accurate control software.

Two additional devices, the CONV24 voltage converter and the PPOT pneumatic potentiometer, are also available to simplify integration into pneumatic Units.

The special vector control provided by the BMC40 module allows the DEFINITIVE® motor to run smoothly and efficiently throughout the entire speed range.

Preset speed is kept constant, even under sustained loads, throughout the whole speed range.

The BMC40 electronic board has got small sizes, thanks to the total use of SMT components.



With the compact DUOPAD® control panel, it is now possible

the DEFINITIVE®LED electric micromotor and the TITANUS®E /

It is also possible to control two separate electric micromotors. The DUOPAD® control panel is meant to be easily fixed to the existing dental Unit's frame and can be directly connected to

Commands and information are exchanged and transmitted

via the integrated RS232 serial port. Information on the status

By means of the soft-touch keyboard, it is possible to choose

If the micromotor is selected, it is possible to adjust speed and

the instrument and select the appropriate operating mode.

ratio of the used contra-angle handpiece: the real output

direction mode. It is also possible to select the gear

of the active instrument is clearly displayed on the LCD

TITANUS®S piezo-electric scaler (or another instrument).

to easily install and control two instruments:

the BMC40 and/or USC60 electronic boards.

graphic interface.



Micromotors can be used with any speed-reducing or speed-increasing contra-angle handpiece with coupling compliant to ISO 3964 standard.