

Thanks to its improved rotor, the micromotor now features higher and reliability power yet with 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 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	<i>VORTICE</i> ®		
Reference:	REF 600.00 (without light) REF 602.00 (with light)	REF 224.40 (4-hole connection) REF 224.52 (rapid connection)		
Rotation speed:	2000 ÷ 40.000 rpm	4000 ÷ 20.000 rpm		
Maximum torque:	3.5 Ncm	2.5 Ncm		
Spray system:	E-type internal	E-type internal		
Light source:	high-brightness white LED	-		
Air pressure:	1 ÷ 3 bar (cooling)	$3.0 \pm 0.1$ bar (drive)		
Maximum air consumption	25 NI/min	63 NI/min		
Weight:	90 g	98 g		
Standard conformity:	ISO 11498, CEI EN 60601-1	ISO 13294, 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:	13 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 60601-1-2	CEI EN 60601-1 CEI EN 60601-1-2	CEI EN 60601-1 CEI EN 60601-1-2
Guarantee:	2 years	2 years	2 years

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







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MICROMOTORS

## DEFINITIVE TKD Made in Italy



brushless micromotor

Without brushes and without bulb,
DEFINITIVE®LED is the new 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 new features
offered by this new 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 new 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.

Micromotor is also equipped with a non-return O-ring for spray water.



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 1,000 2	,000 2,500 10,	000 40,	000 200	,000
HP 16:1	125÷2,500	rpm			
HP 1:1		2,000÷40,	000 rpm		
HP 1:5			10,	000÷200,000 rpm	



With the new compact DUOPAD® control panel, it is now possible to easily install and control two instruments: the DEFINITIVE®LED electric micromotor and the TITANUS®E piezo-electric scaler (or another instrument).

The DUOPAD® control panel is meant to be easily fixed to the existing dental Unit's frame and can be directly connected to the BMC40 and/or TN250 electronic boards.

Commands and information are exchanged and transmitted via the integrated RS232 serial port. Information on the status of the active instrument is clearly displayed on the LCD graphic interface.

By means of the soft-touch keyboard, it is possible to choose the instrument and select the appropriate operating mode. If the micromotor is selected, it is possible to adjust speed and direction mode. It is also possible to select the gear ratio of the used contra-angle handpiece: the real output speed is therefore worked out and displayed on the LCD. If the scaler is chosen, it is possible to select the normal/perio/endo mode and adjust output power correspondingly.



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

Besides various angleque control signals

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.

