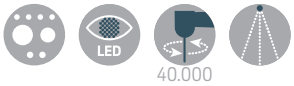
Electric micromotors

Micro size, macro performance

All low speed contra-angle handpieces need an electric micromotor. Tecnomed Italia offers a complete range of micromotors that compare favourably with those of leading brands while costing far less. Compact design, light weight, high power and trouble-free, silent running at all speeds are just some of the benefits of Tecnomed micromotors. Brush and brushless types both guarantee rapid acceleration and deceleration and minimum reaction times. Functioning remains smooth even at low speeds with no loss of torque. Featuring the same top quality components as their electrical counterparts, our air micromotors set the highest standards for dentists seeking quality at a competitive price. Because they rotate at lower speeds than electrical versions, air micromotors represent the ideal choice for all operations where high torque is not needed.

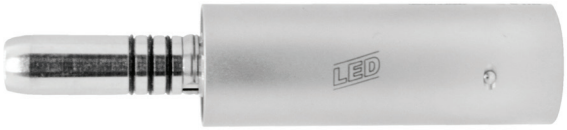
Bien Air® cord with light

Noble steel body. Brush motor. Internal spray.
Maximum torque: 3 Ncm. Weight: 104 grams.
Bien Air® MC3 compatible.



Product Code MJ459TML

KaVo® cord with light



Noble steel body. Brush motor. Internal spray.
Maximum torque: 3.5 Ncm. Weight: 110 grams.
KaVo® 190 / 196 / K200 compatible.

Product Code MJ190KLED

TKD® cord with light

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

Product Code MJ505TL

Comparative data sheet for electric micromotors

Product Code	MJ459TML	MJ190KLED	MJ505TL
			
Version	Electric	Electric	Electric induction
Compatibility	Bien Air® MC3 Cord	KaVo® 190-196-200 Cord	TKD® Cord cod. PC668
Type of motor	Brush	Brush	Brushless
Light source	● LED	● LED	● LED
Type of spray	Integrated	Integrated	Integrated
Maximum speed (rpm)	40.000	40.000	40.000
Torque (Ncm)	3	3,5	3,5
Handpiece casing material	Stainless steel	Stainless steel	Stainless steel
Autoclave resistant handpiece			
Autoclave resistant removable shell		●	
Power supply	3/24 VDC	5/26 VDC	
Light source voltage (VDC)	3,2	3,4	
Spray air flow rate (l/min at 2.5 bar)	4	4	2
Spray water flow rate (l/min at 2 bar)	1,6	1,6	
Cooling/drive air flow rate (l/min at 2.9 bar)	8	7,6	8,6
Handpiece weight (g)	104	110	90
Handpiece diameter (mm)	23,2	21,5	21,5
CE certification	CE	CE 2265	CE
Warranty (months)	12	12	24

Legend: ● = standard // empty = not expected

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 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 Push Button system guarantees quick and easy bur replacement while also ensuring secure bur locking when head is in use.

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

SPRAY SYSTEM
'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 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.