KaVo™ Electric Systems
Introducing ELECTROmatic™
Electrics made easy with KaVo

Switching to KaVo electric systems helps you to improve your efficiency, provide better patient care, and increase your confidence in handling complicated cases. KaVo electric systems combine state of the art handpieces, a short, light-weight motor and the NEW ELECTROmatic™ control system to provide an optimal electric solution for your practice.

Easy selection.
Three distinct options in the ELECTROmatic series offers the versatility to choose the right system to fit your treatment needs.

Easy to use.
ELECTROmatic features an intuitive user interface. Its simple design and clear picture indications make the systems functionality easy to operate.

Start your free trial try.kavo.com/electrics
**Easy speed control.**
The ELECTROmatic motor system delivers constant speed and constant torque, allowing precise preparations at the defined speed. Easily adjust the speed on the control system display for a wide range of indications.

**Easy and fast installation.**
You can upgrade your existing delivery unit within minutes. The plug and play system connects to a standard air tubing and automatically adjusts to the air pressure of your dental unit.
Why KaVo electrics?

With the powerful performance of KaVo’s ELECTROmatic, KaVo now offers a comprehensive electrics upgrade system, a perfect fit with KaVo’s premium handpiece collection. By combining KaVo's triple gear system and a short, light-weight motor, KaVo provides you with the ideal solution for synchronized efficiency.

Master Series

The pinnacle of KaVo innovation
Featuring the MASTERmatic LUX M25 L and MASTERmatic LUX M05 L Mini High-speeds with KaVo’s smallest head size yet on an electric attachment. The MASTERmatic high-speed attachments feature a tripe-gear system for smooth, reliable operation and patented angles for superior access.

Expert Series

Superior KaVo performance
Experience fast and precise working with the EXPERTmatic™ series attachments thanks to a smaller head size, snap-on facility and ceramic bearings. The Expert Series all feature quality stainless steel construction and advanced hygienic solutions.
Smart Series

**Precision endo**
Featuring the SMARTmatic™ S81, you can easily perform endodontic procedures with precision. The entire Smart Series line combines excellent conditions with amazing performance, reliability, versatility and efficiency.

KL703 LED short motor

**Superior KaVo performance**
KL703 LED brushless electric motor is 30% lighter and 25% shorter than other market leading electrics. Paired with KaVo's ELECTROmatic Systems, it connects with any attachment with ISO 3694 (E-style) connection.
**ELECTROmatic Premium**

The ultimate all-in-one device for intuitive operation and integrated endo function. Available with one or two motors for easy prep and integrated endo function. The pre-programmed file systems make it easy to plan and customize your endodontic sequence.

**Features:**
- All-in-one device with special prep mode and endo mode with torque limit control
- Up to 5 speed memory presets available in prep mode
- Powerful KL703 LED Motor with ISO 3694 coupling (see page 11)
- Dual motor option for easy switch between high and low-speed functions
- SMARTdrive™ sensorless control allows a high torque at low speed ranges
- Pairs perfectly with KaVo MASTERmatic attachments
- Very easy to adjust speed with a slider on display
- Large 4.3” TFT color touch screen display
- Intuitive programming adjustment
- Scratch-resistant Dragontrail® glass display, which is six times harder than standard glass
- Smooth surface and easy to clean
- System displays bur speed when selected gear ratio of handpiece is set
- Remote mount display for best ergonomic viewing positions
- 3 year warranty
- Dimensions: 5.9 x 5.3 x 3 inch
**Selected Instruments**

<table>
<thead>
<tr>
<th>MASTERmatic</th>
<th>High-speed</th>
<th>High-speed</th>
<th>Straight</th>
<th>Contra Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selected Instruments</td>
<td>M25 L</td>
<td>M05 L Mini</td>
<td>M10 L</td>
<td>M20 L</td>
</tr>
<tr>
<td>Transmission ratio</td>
<td>1:5</td>
<td>1:5</td>
<td>1:1</td>
<td>1:1</td>
</tr>
<tr>
<td>Speed range up to</td>
<td>200,000 rpm</td>
<td>200,000 rpm</td>
<td>40,000 rpm</td>
<td>40,000 rpm</td>
</tr>
<tr>
<td>Bur type</td>
<td>Friction grip burs 1.6 mm</td>
<td>Friction grip burs 1.6 mm</td>
<td>Handpiece burs</td>
<td>—</td>
</tr>
<tr>
<td>Highlights</td>
<td>Triple gear transmission for quiet and smooth operation</td>
<td>Triple gear transmission for quiet and smooth operation</td>
<td>For use with straight or contra-angle burs</td>
<td>For use with INTRA LUX™ heads</td>
</tr>
<tr>
<td>Overall features</td>
<td></td>
<td>Plasmatec coating for perfect grip, replaceable spray microfilter, glass rod light conductor, ceramic bearings, 2 year warranty*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part no.</td>
<td>1009.3630</td>
<td>1009.3640</td>
<td>1009.3570</td>
<td>1009.3620</td>
</tr>
</tbody>
</table>

*2.5 years when maintained with QUATTROcare Plus

**INTRA LUX heads**

<table>
<thead>
<tr>
<th>Prep</th>
<th>Endo</th>
<th>SMARTmatic Low-speed, Endo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selected Instruments</td>
<td>L68B</td>
<td>L66B</td>
</tr>
<tr>
<td>Transmission ratio</td>
<td>1:1</td>
<td>3:1 Reduction</td>
</tr>
<tr>
<td>Speed range up to</td>
<td>40,000 rpm</td>
<td>13,300 rpm</td>
</tr>
<tr>
<td>Bur type</td>
<td>For latch type burs 2.35 mm</td>
<td></td>
</tr>
<tr>
<td>Overall features</td>
<td>2 year warranty*</td>
<td></td>
</tr>
<tr>
<td>Part no.</td>
<td>1008.1834</td>
<td>1008.1831</td>
</tr>
</tbody>
</table>

*2.5 years when maintained with QUATTROcare Plus

**Prep mode.**

Within the prep mode it is very easy to change settings:

- 5 programmable speed settings (to the left on the display)
- Selection of the gear ratio of handpiece – display shows the actual bur speed
- Motor forward / reverse options
- Access user settings menu

Try the new ELECTROmatic touchscreen functionality for yourself at kavo.com
Easy to use Endo functionality

ELECTROmatic Premium features both a prep mode and a special endo mode. The endo mode allows up to 5 individual endo sequences, with up to 10 files each. The system offers a pre-programmed file database including over 20 endo file systems all with preset parameters like diameter, taper and ISO color code.

Endo mode.
with pre-programmed file systems

Select your endo file sequence.
Choose from the pre-programmed file sequences for efficient working. Or you can create your own sequence by selecting files from the manufacturers listed below. You can even enter your own file specifications for a completely custom workflow for all your endodontic needs.
Work easily in your endo workflow.

At the top of the touch display, select one of your five endo sequences. Start with endo step E0 and continue through each preset. The display shows the file name with ISO color code, taper and diameter. If necessary, change the desired speed and torque with the active slider at the bottom of the screen.

- Water is automatically blocked in endo mode
- Gear ratio options 1:1, 3:1 and 8:1
- Torque control, auto-reverse, auto-reverse / forward options
- Motor forward / reverse options
ELECTROmatic Plus

The perfect solution for all high-speed and low-speed applications. Easy to read LCD display and multiple mounting options offer the best visibility and comfortable access to adjust the motor speed settings.

**Features:**
- LCD-Color Display with 3 speed programs for fast switch between speed settings
- Powerful KL703 LED Motor with ISO 3694 coupling
- Perfect balance of the system due to the light-weight motor and tube
- SMARTdrive sensorless control allows a high torque at low speed ranges
- Pairs perfectly with MASTERmatic or EXPERTmatic attachments
- Easy to upgrade with the modular system design - motor tubes, LED-bulb, motor itself can be exchanged in the field
- Easy program and change of individual speed settings and forward/reverse option
- Remote mount display for best ergonomic viewing position
- 3 year warranty
- Dimensions: 5.7 x 5.2 x 1.7 inch
<table>
<thead>
<tr>
<th>EXPERTmatic</th>
<th>High-speed</th>
<th>High-speed</th>
<th>Low-speed</th>
<th>Low-speed</th>
<th>Low-speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selected Instruments</td>
<td>E25 L*</td>
<td>E25 C</td>
<td>E20 L*</td>
<td>E20 C</td>
<td>E15 L*</td>
</tr>
<tr>
<td>Transmission ratio</td>
<td>1:5</td>
<td>1:5</td>
<td>1:1</td>
<td>1:1</td>
<td>5.4:1 Reduction</td>
</tr>
<tr>
<td>Speed range up to</td>
<td>200,000 rpm</td>
<td>200,000 rpm</td>
<td>40,000 rpm</td>
<td>40,000 rpm</td>
<td>7,400 rpm</td>
</tr>
<tr>
<td>Bur Type</td>
<td>Friction grip burs 1.6 mm</td>
<td>Friction grip burs 1.6 mm</td>
<td>Latch-type burs 2.35 mm</td>
<td>Latch-type burs 2.35 mm</td>
<td>Latch-type burs 2.35 mm</td>
</tr>
</tbody>
</table>

**Overall features**
KaVo EXPERTgrip™ for better grip, Internally guided, separate cooling media, ceramic bearings, 2 year warranty**

**Part no.**
1007.5550 | 1007.5551 | 1007.5540 | 1007.5541 | 1007.5530

*Cellular optic

---

<table>
<thead>
<tr>
<th>EXPERTmatic</th>
<th>Low-speed</th>
<th>IPR / Stripping / Prep</th>
<th>Prophy</th>
<th>Straight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selected Instruments</td>
<td>E15 C</td>
<td>E61 C</td>
<td>E31 C</td>
<td>E10 C</td>
</tr>
<tr>
<td>Transmission ratio</td>
<td>5.4:1 Reduction</td>
<td>–</td>
<td>5.4:1 Reduction</td>
<td>1:1</td>
</tr>
<tr>
<td>Speed range up to</td>
<td>7,400 rpm</td>
<td>20,000 rpm</td>
<td>7,400 rpm</td>
<td>40,000 rpm</td>
</tr>
<tr>
<td>Bur Type</td>
<td>Latch-type burs 2.35 mm</td>
<td>ORTHOstrips™ or Proxoshapes™</td>
<td>For snap on / screw in prophy cups or brushes</td>
<td>For straight burs</td>
</tr>
</tbody>
</table>

**Overall features**
KaVo EXPERTgrip for better grip, Internally guided, separate cooling media, ceramic bearings, 2 year warranty**

**Part no.**
1007.5531 | 1008.4999 | 1008.4998 | 1007.5560

**2.5 years when maintained with QUATTROcare Plus

---

**INTRA LUX KL 703 LED Electric motor**
Brushless motor, speed range 100 to 40,000 rpm controlled torque, maximum torque 3.0 Ncm, sterilizable, self exchangeable LED, 3 year warranty.
**Part no.** 1007.0150
ELECTROmatic

The entry into the world of KaVo electrics. Pairs perfectly with the innovative COMFORTdrive 200XDR high-speed handpiece — now with increased speed range for some low-speed applications.

Features:
- Constant torque and constant speed at high load
- Perfect balance of the system due to the lightweight motor and tube
- SMARTdrive sensorless control allows a high torque
- Dynamic speed regulation allows consistent bur speed even with variable incoming air pressure
- Pairs perfectly with COMFORTdrive™ 200 XDR handpiece
- Easy and flexible installation with mounting brackets included
- Integrated water filter
- Easy to upgrade with the modular system design—motor tubes and LED-bulb can be exchanged in the field
- 3 year warranty
- Dimensions: 5.6 x 4.6 x 1.4 inch
**KaVo COMFORTdrive handpiece**
KaVo's most innovative handpiece - the COMFORTdrive 200XDR offers a blend of optimal performance and superior ergonomics with whisper quiet operation. COMFORTdrive delivers the precise cutting performance of an electric handpieces with the light-weight, ergonomic design similar to an air-driven handpiece thanks to the integrated micromotor technology.

<table>
<thead>
<tr>
<th><strong>COMFORTdrive handpiece</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Handpiece Model</strong></td>
</tr>
<tr>
<td><strong>Speed range</strong></td>
</tr>
<tr>
<td><strong>Bur type</strong></td>
</tr>
<tr>
<td><strong>Highlights</strong></td>
</tr>
<tr>
<td><strong>Overall features</strong></td>
</tr>
<tr>
<td><strong>Part No.</strong></td>
</tr>
</tbody>
</table>

*2.5 years if maintained with QUATTROcare Plus

**COMFORTbase coupling**
Special handpiece tubing and coupling system, exclusively for use with the COMFORTdrive 200 XDR to ELECTROmatic (all versions) Part no. 1011.7335
Flexible installation

Ergonomic and installation options.
The ELECTROmatic system can be installed in many positions to reach highest flexibility and perfect ergonomics. All necessary fixtures are provided for installation on any delivery unit, cabinet or dental cart. The display can easily be installed remotely and the control box can be mounted conveniently out of view.

Fast installation and automatic set-up.
After mounting the ELECTROmatic control module in the desired location, all you need is to connect the supply air tubing(s), the motor tubing(s) and the power supply, then the system is ready to use. With the first push of the treatment unit foot control, the system is automatically calibrated to the existing system air pressure.
## Technical Specifications

<table>
<thead>
<tr>
<th>Product</th>
<th>ELECTROmatic</th>
<th>ELECTROmatic Plus</th>
<th>ELECTROmatic Premium</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions (inch)</strong></td>
<td>5.6 x 4.6 x 1.4</td>
<td>5.7 x 5.2 x 1.7</td>
<td>5.9 x 5.3 x 3</td>
</tr>
<tr>
<td><strong>Presets</strong></td>
<td>n/a</td>
<td>3 speed presets</td>
<td>- 5 presets in prep mode</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- 5 programmable endo workflows</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- 22 pre-programmed files systems*</td>
</tr>
<tr>
<td><strong>Media input</strong></td>
<td>via standard 4-hole, 5-hole or 6-pin air tubing connection</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>System pressure: 1.8 - 5 bar, Spray air: 1.0 - 2.5 bar, Spray water: 0.8 - 2.0 bar, Water filter element included</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Package includes</strong></td>
<td>177 inch power supply cable and all mounting hardware</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Drive included</strong></td>
<td>1 x COMFORTbase™</td>
<td>1 x KL703 or 1 x COMFORTbase</td>
<td>1 x KL703</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2 x KL703 or 1 x KL703 and 1 x COMFORTbase</td>
</tr>
<tr>
<td><strong>with KL703 motor</strong></td>
<td>–</td>
<td>1012.8541</td>
<td>1012.8545</td>
</tr>
<tr>
<td>standard tube (69 inch)**</td>
<td>1012.8547</td>
<td>1 x KL703</td>
<td>2 x KL703</td>
</tr>
<tr>
<td><strong>with COMFORTbase</strong></td>
<td>1012.8539</td>
<td>1012.8543</td>
<td>–</td>
</tr>
<tr>
<td>standard tube (69 inch)**</td>
<td>1012.8549</td>
<td></td>
<td>1 x KL703 and 1 x COMFORTbase</td>
</tr>
<tr>
<td><strong>INTRA LUX KL 703 LED Motor</strong></td>
<td>or</td>
<td><strong>COMFORTbase</strong></td>
<td></td>
</tr>
<tr>
<td>Torque</td>
<td>Max. 3.0 Ncm</td>
<td>Max. 0.4 Ncm</td>
<td></td>
</tr>
<tr>
<td>LED bulb intensity</td>
<td>25,000 LUX</td>
<td>25,000 LUX</td>
<td></td>
</tr>
<tr>
<td>Motor speed range</td>
<td>100 - 40,000 rpm</td>
<td>20,000 - 200,000 rpm</td>
<td></td>
</tr>
</tbody>
</table>

* For ordering of Kerr Endo files contact your friendly Kerr Endodontics representative or call 800-KERR-123

** Optional long tube (87 inch) available
Dental Excellence from KaVo.

**Handpieces**
KaVo has always been the leader in creating innovative solutions for dental practitioners. Our vast line of quality handpieces showcase our attention to your level of care while delivering performance that lasts.

**Treatment Units**
Beautiful lines, patient comfort and simple operation are just a few of the benefits to the line of KaVo treatment units. Everything you need to perform any procedure—all in one solution.

**Imaging Solutions**
Designed with ease-of-use for all clinicians in mind, KaVo now offers dependable and consistent imaging solutions that provide vital information to support accurate diagnosis and predictable treatment planning.

The products, equipment and services illustrated and described in this brochure reflects knowledge at the time of printing. KaVo Dental accepts no liability for any deviation from the illustrations in terms of color or shape, or any errors or print errors, and retains the right to make changes to the brochure at any time. Full or partial reprinting is only permitted with permission from KaVo Dental. ELECTROMatic, INTRA LUX, COMFORTdrive, COMFORTbase, EXPERTmatic, EXPERTgrip, MASTERmatic, SMARTmatic, SMARTdrive, QUATTROcare are registered trademarks of KaVo Dental in the United States and/or other countries. K3, Lightspeed and TF are registered trademarks of Kerr in the United States and/or other countries. Dragontrail is a registered trademark of Asahi Glass Company. ProFile, System GT, ProTaper, Universal, ProTaper Next, ProFile GT, PathFile, GT Series X, Vortex, Protaper G, Vortex Blue and TRUShape are registered trademarks of Dentsply. HyFlex, EDM and HyFlex CM are registered trademarks of Coltene. BioRace is a registered trademark of FKG. F3260 is a registered trademark of Komet. Hero is a registered trademark of Micro-mega. Mtwo is a registered trademark of VDW.

© 2017 KaVo Dental. All rights reserved. KV00148/A8.17