

# ELECTROmatic System

Electrics made easy with KaVo.



## ELECTROmatic: Your fast lane to Dental Excellence.

Raise the bar on your practice. Switching to KaVo electrics helps you to improve your efficiency, provide better patient care, and increase your confidence in handling complicated cases. KaVo will get you there, with the reliability of more than 35 years experience in electrics.



## Performance that blows you away.

### Constant torque.

Only an electric motor maintains the cutting speed under nearly any load – for smoother and more precise preparations.

### Controlled speed.

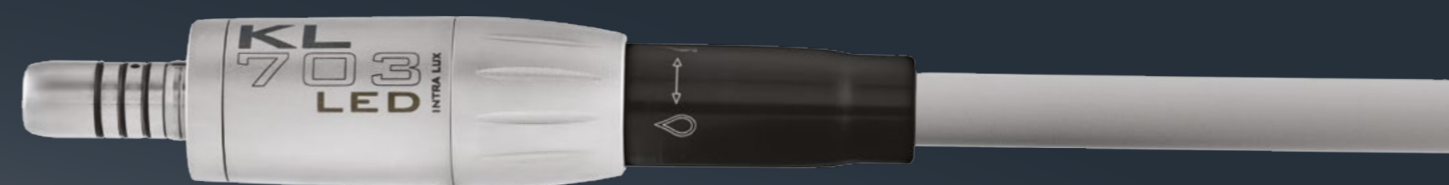
Electronically controlled, defined programmed speed within a large speed range enables many different kinds of preparations.

### Very quiet.

Working at a very low sound level, without the whine of air driven motors – for relaxed and focused treatments.

### Versatility.

Electric allows to perform high-speed, low-speed and endodontic applications with light – perfect for almost any procedures.



## Going electric has never been this easy.

### Easy speed and power control.

The automatic speed control allows a precise preparation at the defined speed. SMARTdrive allows a high torque at the lowest speed, giving you perfect control for many applications. In combination with KaVo handpieces, it provides stable control from 2-200,000 rpm for high quality preparation.

### Easy to use.

ELECTROmatic features an intuitive user interface for easy speed adjustment and programmable settings for operative and endodontic applications.

### Easy versatility.

Three distinct options in the ELECTROmatic series offer the versatility to choose the right system to fit your needs – suitable for high-speed, low-speed and endodontic applications all in one system.

### 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 the dental unit.

## Starting innovation: ELECTROmatic and ELECTROmatic Plus.



### ELECTROmatic.

The entry into the world of KaVo ELECTROmatic. This simple system allows speed control with the foot control, just as an air-driven high-speed. The KaVo portfolio of speed increasing and decreasing handpieces offers additional control and flexibility of the system.

#### Highest power and constant speed at high load.

- Powerful KL703 LED Motor with INTRAMatic coupling fits to multiple KaVo Handpieces
- Perfect balance of the system due to the light weight motor and tube
- SMARTdrive sensorless control allows a high torque at low speed ranges
- The LED light gives up to 25,000 LUX to the preparation area
- Spray water regulation is easy on the motor tube
- Automatic dynamic speed regulation & calibration

system allows auto-set-up of system air pressure and always max. speed at changing air pressure within a high pressure range.

- Easy and flexible installation with mounting brackets included
- Integrated water filter with replacement filter
- Self exchangeable modular system: tubes, LED-bulb, motor
- Dimensions: 143 x 118 x 36 mm



### ELECTROmatic Plus.

Perfect control and programmable speed settings allow the stable running of the bur. The colour LCD Display shows the actual motorspeed and the three speed programs are easy to set-up. This allows a fast set-up for all high-speed and low-speed applications.

#### The perfect solution for all high- and low-speed applications.

- Powerful KL703 LED Motor with INTRAMatic coupling fits to multiple KaVo handpieces
- Perfect balance of the system due to the light weight motor and tube
- SMARTdrive sensorless control allows a high torque at low speed ranges
- The LED light gives up to 25,000 LUX to the preparation area
- Spray water regulation is easy on the motor tube
- Automatic dynamic speed regulation & calibration system allows auto-set-up of system air pressure and always max. speed at changing air pressure within a high pressure range.

- Easy and flexible installation with mounting brackets included
- Integrated water filter with replacement filter
- Self exchangeable modular system: tubes, LED-bulb, motor
- LCD-Colour Display with 3 speed programs for fast switch between 100 – 40,000 rpm
- Easy program and change of individual speed settings and forward/reverse option
- Display rotates for vertical and horizontal mounting
- Display can be installed remotely
- Easy installation due to flexible mounting options
- Further adjustment of light brightness and afterglow, key tone and selection between digital or analogue speed
- Dimensions: 145 x 132 x 44 mm

## Single or dual motor: ELECTROmatic Premium and Premium Dual.



### ELECTROmatic Premium.

The ultimate all-in-one device with a 4.3" TFT colour touch screen for intuitive handling and integrated endo function. Available with one or even two motors for perfect workflow efficiency: preset your desired handpieces, select the desired speeds and you can easily switch between high- and low-speed handpieces or your selected endo program.

#### Workflow at its best.

- All-in-one device with a special prep and endo mode (several torque controls)
- 5 speed programs in prep mode with display of speed set, very easy to adjust with a slider
- Intuitive handling due to integrated 4.3" TFT colour touch screen displaying
- Vivid colour touch display with speed slider for fast set-up

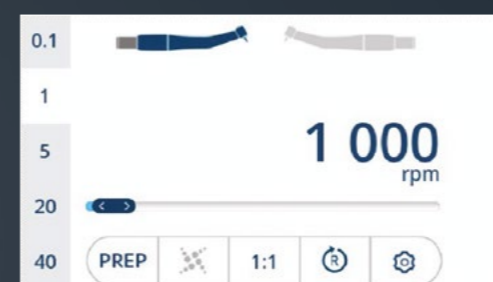
### ELECTROmatic Premium Dual.

The Dual Motor System allows a complete new workflow with preset high- and low-speed handpieces and burs. No further exchanging of the handpiece is necessary.

- Touch screen with Dragontrail® glass, six times harder than glass and easy to clean
- System shows real bur speed when selected gear ratio of handpiece is set
- Dimensions: 150 x 135 x 76 mm

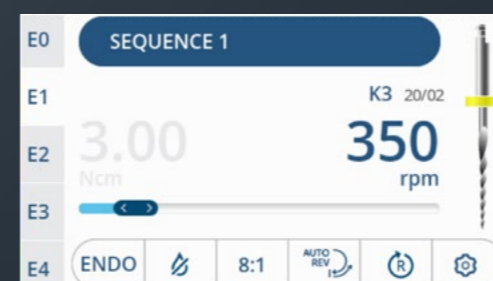
## Easy to use endo functionality.

The endo mode allows up to 5 individual endo workflows, with up to 10 files each. The system offers a database including over 20 endo file systems all with preset parameters like diameter, taper and ISO colour code. Intuitively program your choice of single files from different systems to individualise your workflows and to implement further files.



#### Prep mode.

- Within the prep mode it is very easy to change settings:
- 5 programmable speed settings
  - Selectable gear ratio of handpiece – shows actual bur speed
  - Motor forward / reverse



#### Endo workflow setup.

Define up to five individual endo workflows. For each workflow choose between one of the predefined endo steps E0-E9. Choose the preferred file system and desired diameter / taper – the system automatically shows the max. speed and torque for the selected ISO file. Define each of the 5 workflows with your desired description.



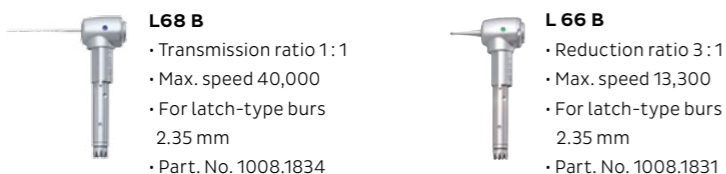
#### Work easily in your endo workflow.

On the touch display, select one of your five endo workflows. Start with endo step E0 and continue as preset. The display shows the file name with ISO colour code, taper and diameter. If necessary, change the desired speed and torque with the active slider.

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

## Versatility in preparations: Recommended handpieces and heads.

### 2 heads for standard preparation and all endo needs



### Master Expert

Selected handpieces	MASTERmatic LUX M25L	MASTERmatic LUX M20 L	MASTERmatic LUX M07 L	EXPERTmatic E25L	EXPERTmatic E20L	EXPERTmatic E15 L
Transmission ratio	1:5	1:1	2.7:1	1:5	1:1	5.4:1
Speed range	500 - 200,000 rpm	100 - 40,000 rpm	37 - 14,800 rpm	500 - 200,000 rpm	100 - 40,000 rpm	19 - 7,400 rpm
Bur type	FG burs 1.6 mm			FG burs 1.6mm	Latch-type burs 2.35 mm	Latch-type burs 2.35 mm
Highlights	Triple gear system – for quiet and smooth operation Maximum treatment flexibility provided by 14 exchangeable heads			3-port spray push-button chuck-replaceable spray microfilter	Debris deflector disc and reinforced chuck system	Debris deflector disc and reinforced chuck system
Overall features	Plasmatec coating for perfect grip, Replaceable spray micro-filter, Glass rod light conductor, ceramic bearings, Internally guided, separate cooling media, 2 year warranty			KaVo EXPERTgrip for better grip, Internally guided, separate cooling media, Glass rod light conductor, bearings, 18 month warranty		
Mat. No.	1.009.3630	1.009.3620	1.009.3610	1.007.5550	1.007.5540	1.007.5530

If you prefer to work with different handpieces, your ELECTROmatic system includes:



INTRA Lux Motor KL 703 LED

Brushless motor, speed range 100 to 40,000 rpm (in combination with KaVo KL electronics) controlled torque, maximum torque 3.0 Ncm, sterilisable, self exchangeable LED, 3 year warranty. Motor tube with spray water regulation, 1 year warranty

## For all who want to have it all-in-one: COMFORTdrive.



### COMFORTdrive

Selected handpiece	COMFORTdrive 200 XD
Transmission ratio	Integrated brushless motor 1:1
Speed range	20,000 - 200,000 rpm
Bur type	FG burs 1.6 mm
Highlights	Very lightweight and handy, the most ergonomic and balanced all-in-one device with water spray
Overall features	Plasmatec coating for perfect grip, replaceable spray microfilter, Glass rod light conductor, ceramic bearings, Internally guided separate cooling media, 2 year warranty
Mat. No.	1.000.5500

If you prefer to work with COMFORTdrive 200 XD, your ELECTROmatic system includes:



**COMFORTbase coupling**  
with tubing for adaption of COMFORTdrive 200 XD, 1 year warranty

(ELECTROmatic Premium cannot be combined with COMFORTdrive)

As easy to install  
as to work with.

## Technical Specifications.

Made in  
Germany



	ELECTROmatic	ELECTROmatic Plus	ELECTROmatic Premium	ELECTROmatic Premium Dual
<b>Display</b>	no	LCD colour display	4.3" colour touch display	
<b>Dimensions (mm)</b>	143 x 118 x 36	145 x 132 x 44	150 x 135 x 76	
<b>Presets</b>	no	3 speed presets	5 preset in prep mode 5 endo workflows with up to 10 files and 22 file systems for fast set-up speed slider	
<b>Drive included</b>	1 x KL703 or 1 x COMFORTbase	1 x KL703 or 1 x COMFORTbase	1 x KL703	2 x KL703 or 1 x KL703 + 1 x COMFORTbase
<b>Media input</b>	via 4/5/6 hole standard connection System pressure: 1.8 - 5 bar, Spray air: 1.0 - 2.5 bar, Spray water: 0.8 - 2.0 bar			
<b>Water filter</b>	yes			
<b>Power supply</b>	4.5 m connection cable			
<b>Remote cord length</b>	no	800 mm	800 mm	800 mm

### Ergonomic and versatile assembly.

The ELECTROmatic versions can be installed in many positions to reach highest flexibility and perfect ergonomics for the dentist. All necessary fixtures allow assembly under, beside, on top of, behind the tray or onto a wall or cabinet. The display can easily be installed remotely with the integrated cord. The control box will be installed hidden under the tray.

### Fast and easy set-up and installation.

Mount the ELECTROmatic, then connect the turbine tube, the motor tube to the motor and connect the transformer to mains. With the first push of the foot pedal of the treatment unit, the system gets automatically set-up to the existing air pressure. System is optionally available with long tube for rear delivery set-up of the controller, e.g. onto a cabinet.

### Top, side, under and behind Tray-Assembly with remote option.



### Order numbers

	ELECTROmatic	ELECTROmatic Plus	ELECTROmatic Premium	ELECTROmatic Premium Dual
<b>with KL703 motor</b>				
<b>standard tube (1750 mm)</b>	1.012.8537	1.012.8541	1.012.8545	1.012.8547
<b>long tube (2200 mm)</b>	1.012.8538	1.012.8542	1.012.8546	1.012.8548
<b>with COMFORTbase</b>				
<b>standard tube (1750 mm)</b>	1.012.8539	1.012.8543		1.012.8549
<b>long tube (2200 mm)</b>	1.012.8540	1.012.8544		1.012.8550

Included	KL 703	or	COMFORTbase
<b>Torque</b>	Max. 3.0 Ncm		Max. 0.4 Ncm
<b>LED bulb intensity</b>	25,000 LUX		25,000 LUX
<b>Motor speed range</b>	100 - 40,000 rpm		20,000 - 200,000 rpm*

\* in combination with COMFORTdrive handpiece

# Dental Excellence in every area.



## Practice equipment

KaVo treatment units and lights, dental chairs, patient communication systems, dental microscope and additional operatory accessories.



## Instruments

Dental straight and contra-angle handpieces, turbines, air polishing systems and small equipment for all application areas including diagnosis, prophylaxis, restorative, surgery, endodontics and instrument care.



## Imaging

Intraoral X-ray equipment, sensors and imaging plate systems, panoramic and cephalometric in combination with CBCT, as well as dedicated CBCT devices for every indication in dentistry.



## CAD/CAM

Dental CAD/CAM solutions for premium aesthetic, natural-looking and long-lasting restorative work, suitable for dentists and dental technicians.

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