



THE KAVO ADVANTAGE

Your guide to KaVo innovations

WELCOME TO THE KAVO ADVANTAGE

Since 1909, dental professionals around the world have trusted the quality and precision of KaVo instruments. With more than 5 million handpieces sold worldwide, KaVo is the number one selling handpiece in the world.

Dental Excellence since
1909

In 1928, the first sterilizable handpiece is created by KaVo.



1909 In 1909, KaVo is founded by Alois Kaltenbach and in 1919 Richard Voigt joins the company.



In 1958, KaVo launches its first turbine called Borden-Air 60.

Our vast line of quality handpieces showcases our attention to your level of care while delivering performance that lasts. It is our passion for excellence that enables us to deliver the best air-driven, electric and surgical systems worldwide.

In 1977, the KaVo MULTIflex™ is the first quick-release coupling.



In 2005, KaVo launches GENTLEsilence™ LUX 6500 B – one of the quietest turbines in the world.



In 2009, KaVo designs the COMFORTdrive™ – KaVo's most innovative high-speed system.



In 2014, KaVo launches the new surgical portfolio featuring the MASTERSurg™ and EXPERTSurg™ – simple and intuitive surgical motors, redefining the best.



In 2015, KaVo designs the MASTERtorque M8700 L and also launched the MASTERmatic™ series, with significant improvements in head size.



In 2017, SMARTmatic instruments offer a versatile portfolio for endodontics, restorative and prophylaxis treatment indications.



In 2020, SURGmatic Pro instruments provide highly durable surgical attachments that can accommodate any implant system and a wide range of oral surgeries.



In 1982, KaVo integrates the first light conductors into turbines.



In 2006, KaVo introduces the revolutionary DIAGNOdent™ pen caries detection aid.



In 2012, KaVo introduces INTRAmatic LUX KL703 LED Short Motor, one of the shortest and lightest electric motors.



In 2014, KaVo introduces MASTERtorque™ M8900 L, one of the worlds most powerful and advanced high-speed turbines..



In 2017, KaVo reveals a new, modern logo and refresh to its branding. KaVo elevates its brand as the premier handpiece choice in North America.



In 2019 KaVo launches the next-generation PROPHYflex™ 4 air polisher. With one of the most advanced designs of it's generation.

Legend



2-Hole



4-Hole



5-Hole



6-Pin



Light



Sterilizable at temperatures up to 135°C / 275°F

KAVO

Electrics Collection

The pinnacle of KaVo innovation

KaVo offers a comprehensive electrics system. By combining KaVo's smallest head size for best access and visibility, a reliable triple gear system, and a short, light-weight motor, KaVo provides you with the ideal solution for synchronized efficiency.



Smaller Head Size

For easy, efficient access to the preparation area



KaVo Push-Button Chuck System

With a retention power of up to 30 N for secure retention of the bur



Low Volume (only 55 dB(A))

To eliminate unpleasant noises for patients and treatment personnel



Optimum Access

Thanks to the patented 100°/19° head/knee angle combination



Triple-Gear Technology

For ultra-smooth operation with minimal vibration



Plasmatec™ Coating

For a perfect grip and excellent hygiene

Powerful balance

Celebrating over 10 years of its revolutionary impact to electrics innovation, KaVo's **INTRA™ LUX KL703 LED** offers impressive power and handling. With perfect ergonomics and optimum weight distribution, the KL703 LED is the powerful force behind KaVo's award winning Electrics collection.



ELECTROmatic Premium

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



ELECTROmatic Plus

The perfect solution for all high-speed and low-speed applications. ELECTROmatic™ Plus is equipped with an easy-to-read LCD display and multiple mounting options offer the best visibility and comfortable access to adjust the motor speed settings.



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.

MASTERmatic Attachments



M25 L



M05 L



M20 L



M07 L



M29 L



M10 L

MASTERmatic™
MASTERmatic version

High-speed

High-speed

Low-speed

Low-speed

Low-speed

Straight Attachment

Transmission type

Speed Increasing 1:5

Speed Increasing 1:5

1:1

Reduction 2.7:1

Reduction 7.4:1

1:1

Part no.

1009.3630

1009.3640

1009.3620

1009.3610

1009.3580

1009.3570

INTRA LUX Heads



L68 B



L80



L67



L66 B



L53



L3

INTRA™ LUX
INTRA LUX version

Operative Latch

Operative Friction Grip

Operative Latch

Endodontics Latch

Endodontics

Endodontics

Transmission type

1:1

1:1

2:1 Reduction

3:1 Reduction

90° Oscillating

90° Oscillating

Part no.

1008.1834

1004.4456

1008.1832

1008.1831

1008.1826

1008.1830



L3 Y



L61 G



L61 R



L62



L52



L31



L22

INTRA™ LUX
INTRA LUX version

Endodontics

Ortho / Perio / Endo

Ortho / Perio / Endo

Endodontics Latch

Mini Latch

Prophy

Micro

Transmission type

Specialty

Axial stroke (3:1)

Axial stroke (3:1)

10:1 Reduction

1:1

2:1 Reduction

1:1

Part no.

1008.1823

1008.1828

1008.1829

1008.1830

1008.1825

1008.1824

1008.1835

EXPERTmatic Attachments



E25 L / C*



E20 L / C*



E15 L / C*



E31 C



E61 C



E10 C

| EXPERTmatic™ | E25 L / C* | E20 L / C* | E15 L / C* | E31 C | E61 C | E10 C |
|----------------------------|--|--|--|-----------------|--------------------|---------------------|
| EXPERTmatic version | High-speed | Low-speed | Low-speed | Low-speed | Low-speed | Straight Attachment |
| Transmission type | Speed increasing 1:5 | 1:1 | Reduction 5.4:1 | Reduction 5.4:1 | Axial stroke (3:1) | 1:1 |
| Part no. | 1007.5550 (E25 L) 1007.5551 (E25 C) | 1007.5540 (E20 L) 1007.5541 (E20 C) | 1007.5530 (E15 L) 1007.5531 (E20 C) | 10080.4998 | 1008.4999 | 1007.5560 |

*Model numbers ending in C are non-optic

COMFORTdrive



| | |
|------------------------|---|
| Handpiece Model | COMFORTdrive™ 200 XDR |
| Speed range | 20,000 - 200,000 rpm |
| Bur type | Friction grip burs 1.6 mm |
| Connection type | Pairs exclusively with COMFORTbase coupling system |
| Features | Very lightweight and powerful - the most ergonomic KaVo handpiece |
| Part No. | 1007.3570 |

Electric Systems



ELECTROmatic™ Premium with KL703 motor standard tube (69 inch)

Part no. 1012.8545 – 1 x KL703
Part no. 1012.8547 – 2 x KL703



ELECTROmatic™ Plus with KL703 motor standard tube (69 inch)

Part no. 1012.8541 – 1 x KL703



ELECTROmatic™

Part no. 1012.8539 (1x COMFORTbase)

Air-Driven High-Speed Collection

Superlative performance and power

KaVo's MASTERtorque premium air-driven handpieces feature superlative performance coupled with superior access and visibility, especially in the posterior. The extremely well-balanced turbines create whisper quiet operation that protects your hearing and helps create a more relaxing environment for all.



Safe Preparations with Direct Stop Technology™

Bur stops in less than one second for greater safety during treatment



Maximum Chuck Strength

With a retention power of up to 30 N for secure retention of the bur



More Power

Most powerful high-speed with ceramic bearings



Whisper Quiet Operation

Quietest KaVo Air High-speed at 57 decibels



Non-Return Feature

Effectively prevents contaminated debris and aerosol getting inside the housing around the head



Industry Leading Access

Better access even with a 19 mm bur, the total head height is only 20 mm

MASTERtorque™



M8900 L



M8700 L

EXPERTtorque™



E679 L



E675 L

SMARTtorque™



S619 L



S615 L



S609 C



S605 C

SURGtorque™



S459 L



S459 C

| | M8900 L | M8700 L | E679 L | E675 L | S619 L | S615 L | S609 C | S605 C | S459 L | S459 C |
|------------------|---|-----------|--|-----------|-------------------------------------|-----------|--|-----------|--|-----------|
| Head size | Standard | Mini | Standard | Mini | Standard | Mini | Standard | Mini | Standard | Standard |
| Power | 31 watts | 30 watts | 29 watts | 27 watts | 26 watts | 22 watts | 26 watts | 22 watts | 19 watts | |
| Features | Direct Stop Technology™, Plasmatec Coating, 2-year Standard Warranty, Whisper Quiet Operation | | EXPERTgrip, 3rd generation cellular optics, Push button auto chuck | | Optimum balance of speed and torque | | Optimum balance of speed and torque, Non-optic | | Exhaust ports direct excess exhaust away form the cutting area | |
| Part no. | 1008.7800 | 3001.0000 | 1006.9200 | 1006.6400 | 1008.1641 | 1008.1643 | 1008.1644 | 1008.1645 | 3000.4808 | 3000.5063 |

Use with any of the following KaVo MULTIflex™ Couplers



465LED MULTIflex™ LUX Coupler
Part no. 1007.3197



460LED MULTIflex™ LUX Coupler
Part no. 1007.3201



1390 MULTIflex™ LUX Coupler
Part no. 0553.1390



457 MULTIflex™ Coupler
Part no. 0553.1210

SMARTmatic Low-speed Collection

The smart choice for your practice

The SMARTmatic series unites KaVo's trusted quality with smart features for optimal ease of use and successful clinical outcomes. As a successor to the established INTRAmatic E / ES series, our SMARTmatic compliments the Master and Expert series to offer you an attractive entry into the world of KaVo.



Exceptional Quality

Designed by the leading dental brand, known and trusted for over 110 years



Versatile Portfolio

Wide range of treatment options thanks to 15 unique instruments within this platform



Premium Materials

Rust-free stainless steel for long-lasting durability and low cost of ownership



Precise Ball Bearings

Made with quality performance top of mind, well-balanced ball bearings provide smooth operation



Smart Design

Ergonomic design provides better visibility and balance for precise treatment

SMARTmatic™



| SMARTmatic™ | S20 K | S80 K | S19 K | S31 K | S10 K | S20 | S81 | S321 | S19 | S31 | S33 | S53 | S10 |
|-------------------------------------|-------------|---------------|-----------|--------------------|-------------|-------------|------------|------------|-----------|--------------------|---------------------------------|------------|-------------|
| Primary indication(s) | Restorative | Restorative | Prophy | Prophy | Restorative | Restorative | Endo | Endo | Prophy | Prophy | Prophy | Prophy | Restorative |
| Operating speed transmission | 1:1 | 1:1 | 8:1 | 8:1 | 1:1 | 1:1 | 8:1 | 32:1 | 8:1 | 8:1 | 8:1 70° Oscillating rotation | | 1:1 |
| Chuck system | Latch type | Friction grip | Doriot | Screw-in (Snap-on) | Latch type | Latch type | Latch type | Latch type | Doriot | Screw-in (Snap-on) | Screw-in (Snap-on) | Latch type | Latch type |
| Part no. | 1011.6751 | 1011.6771 | 1011.6741 | 1011.6761 | 1011.6731 | 1011.6750 | 1011.6780 | 1011.6790 | 1011.6740 | 1011.6760 | 1011.6800 | 1011.6810 | 1011.6730 |

SMARTmatic models ending in K are suitable for INTRA 181K Air motor.
All others are compatible with any E-style motor.



INTRA™ 181 K Air motor
Forward/reverse speed adjustment
Part no. 0535.5260



INTRA™ 181 M Air motor
Quick Disconnect, forward reverse speed adjustment. Part no. 0535.5250



INTRA™ 181 H Air motor
Forward/reverse speed adjustment
Part no. 0535.5200



INTRA™ LUX 181 L Air motor
Forward/reverse adjustment
Part no. 0535.5210



INTRA™ LUX KL 703 LED Electric motor
Brushless motor
Part No. 1007.0150



QUATTROcare Plus

Automated handpiece maintenance system

The user friendly QUATTROcare™ Plus handpiece maintenance system is designed to clean, lubricate and purge your instruments with the simple push of a button. Maintenance with the QUATTROcare Plus system means less wear, less repairs, less staff down time, smoother operation, and increased longevity of your handpieces.



Easy to Use

Up to four (4) handpieces or air motors are cleaned, lubricated and purged in the same cycle



Safe, Controlled Cleaning

Completely controlled cleaning and purging procedure



Economical Investment

Can be used for virtually all manufacturers' handpieces, air driven scalers and air motors



Fast Cleaning Cycle

Flexible programming allows setting of total cycle time from 20-45 seconds per handpiece



Chuck Care Maintenance

Chuck care system provides easy maintenance of handpiece chuck

Exact Amount, Every Time

QUATTROcare Plus provides the exact amount of spray to properly lubricate your handpieces. Our unique formulation of spray cleans and lubricates in just one step.



Easy operation with three simple steps



The use of QUATTROcare Plus ensures consistent servicing and minimizes errors, which leads to savings from unnecessary repairs. Discover tips on how to prolong the service life of your KaVo handpieces by downloading our KaVo Care & Maintenance Brochure.



SONICflex quick

HYGIENE – STEP 1 SCALING

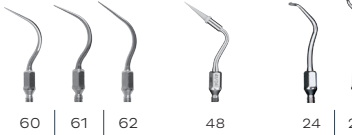
The wide range of options offered by the SONICflex will soon make it one of your most-used instruments. The SONICflex connects quickly and easily to KaVo MULTIFlex couplers and offers three performance settings providing you optimum working conditions, for every indication.



hygiene



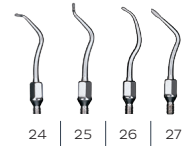
scaler



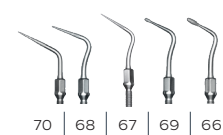
perio



implant



rootplaner



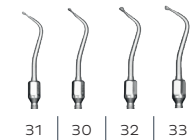
endo



retro

endodontics

minimally invasive dentistry



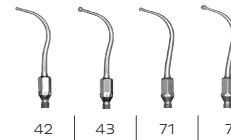
micro



bevel

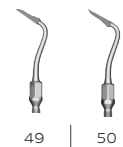


seal



cariex

preps



gold



ceram



CAD / CAM



crown

SONICflex™

Part no. 1007.1604 (2008 L quick)

Part no. 1000.8333 (2003 L)

PROPHYflex 4

HYGIENE – STEP 2 CLEANING

Prevent caries, periodontitis and gingivitis by removing biofilm deposits easily with PROPHYflex 4 air polishing device. The PROPHYflex 4 connects easily to KaVo MULTIflex couplers for a quick disconnect and optimal portability.

It's ergonomically designed for a more comfortable experience. PROPHYflex 4 is designed so you can easily disassemble, clean, disinfect and sterilize the device before every use. PROPHYflex 4 checks all the boxes.



PROPHYflex™ 4

Part no. 3002.8000 (wave blue)

Part no. 3002.8200 (lime green)

Part no. 3002.8800 (flamingo pink)

KAVO

PROPHYwiz 181P

HYGIENE – STEP 3 POLISHING

PROPHYwiz provides you with the most comfortable polishing handpiece to maximize productivity and make polishing easier and more enjoyable. PROPHYwiz runs smoothly and quietly to optimize patient comfort. PROPHYwiz is an affordable and easy integration to your existing hygiene workflow.

SMARTmatic low-speed hygiene Attachments

KaVo's SMARTmatic PROPHY S19K and PROPHY S31 K are easy to use, ergonomic and light-weight handpieces for tooth polishing. The durable hygienic coating allows for better handling and performance. Easily integrate SMARTmatic Prophy attachments to your workflow with KaVo's INTRA 181K Air-Motor and maximize your versatility (see page 11).



PROPHYwiz™ 181 P

Part no. 1003.2278

DIAGNOdent pen

HYGIENE – STEP 4 CARIES DETECTION



How the DIAGNOdent Works

The DIAGNOdent uses laser fluorescence to aid in the detection of caries within the tooth structure. As the incident laser light is dispersed into the site, carious tooth structure will exhibit fluorescence, proportionate to the degree of caries, resulting in elevated scale readings on the display. Clean healthy tooth structure exhibits little or no fluorescence and will result in very low scale readings on the display.

Proven Clinical Results

Treatment decisions require a higher degree of certainty. The DIAGNOdent laser caries detection aid removes the doubt from treatment decisions regarding hidden caries or questionable stained grooves. The device's ability to see into occlusal pits and fissures enables dentists to treat subsurface carious lesions with confidence.

DIAGNOdent™ pen

Part no. 1004.3400 (pen)

Part no. 1004.8400 (display/holder)

Surgical systems

The KaVo Surgical portfolio redefines the best. They are simple, intuitive and easy to use with large color screens and pictorial guides for step-by-step implant procedures. KaVo's MASTERsurg and EXPERTsurg units offer intelligent power and precise torque.



MASTERsurg LUX Wireless

Wireless foot control makes the MASTERsurg a comfortable system to use while delivering maximum performance and safety. Easily customize up to 10 programs, each with 10 programmable steps for your desired implant workflow.



EXPERTsurg LUX

EXPERTsurg is easy to operate, saving you time to perform at your best. One touch auto calibration guarantees precise speed and torque for maximum safety.



Performance

Experience exceptional performance thanks to KaVo's INTRA™ S600 LED, one of the world's lightest and smallest surgical micro motors that delivers adjustable torque up to 80 Ncm in implant mode.



Surgical Attachments



S15L Pro



S201 XL Pro



S201 L Pro



SURGmatic S11L



3610N1



3610N2



3610N3

Transmission

Speed-increasing 1:5

Reduction Ratio 20:1

Reduction Ratio 20:1

1:1 Transmission

1:1 Transmission

1:1 Transmission

1:1 Transmission

Features

CoolHead Technology, EXPERTgrip, 3-port spray for optimal cooling of the entire length of the bur

EXPERTgrip, Removeable head, easy to clean

EXPERTgrip, Removeable head, easy to clean

EXPERTgrip, External spray

Surgical straight attachment easily dismantled for cleaning

Part no.

1014.4000

1013.7541

1013.7541

1009.1010

0524.5600

0524.5610

0524.5620

MASTERSurg™ LUX Wireless

Part no. 1009.1200



EXPERTSurg™ LUX

Part no. 1008.3500



Dental Excellence from KaVo.

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Dental Excellence