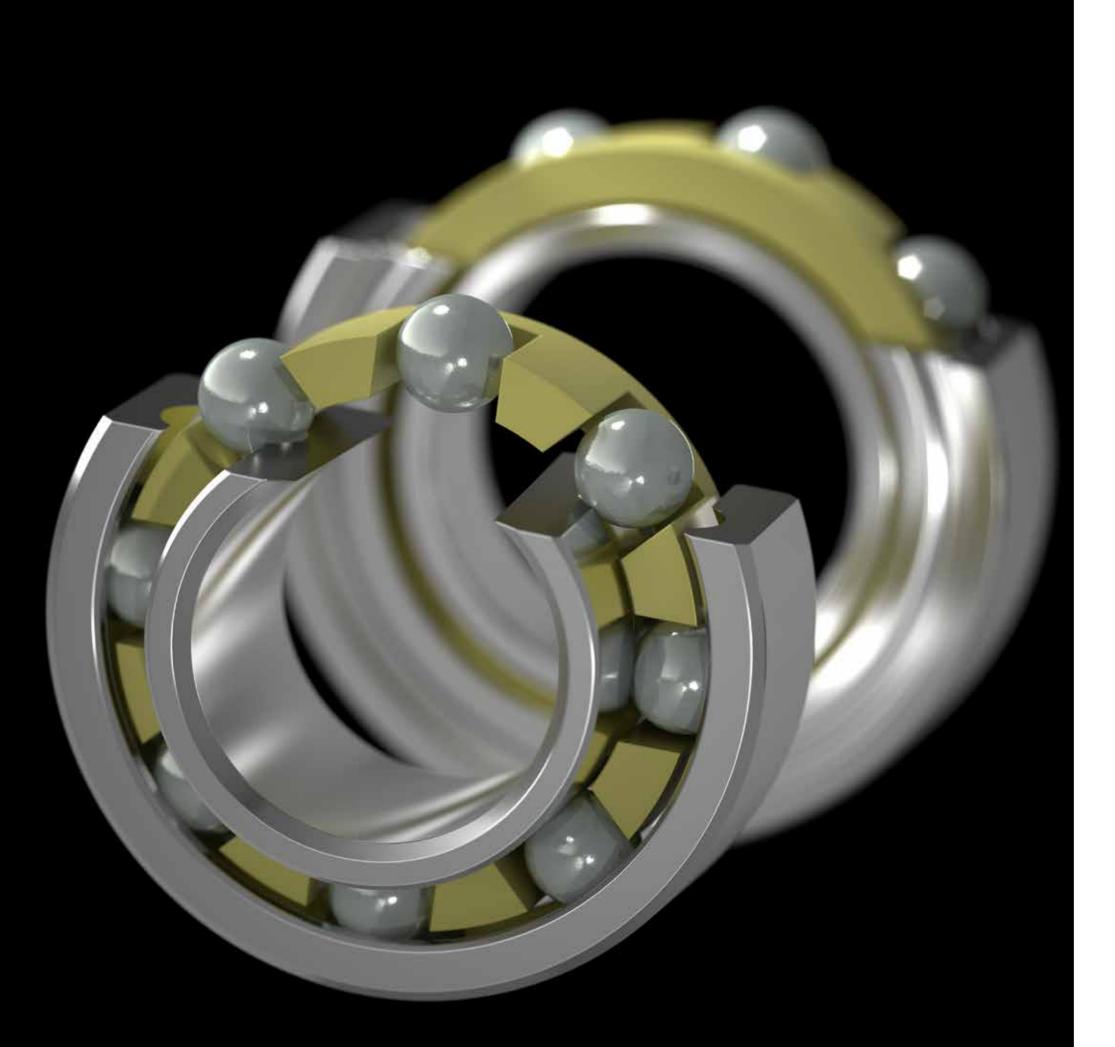
KaVo Instruments





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The products, equipment and services shown and described in this catalogue are not available in all countries. All information provided is correct at the time of going to press.

KaVo highlights **Dental Excellence since**

1909

With a variety of patents and utility models granted, KaVo consistently delivers on its promise of Dental Excellence. We have repeatedly set new standards with our innovations, especially in terms of instruments, and we will continue to exceed expectations.













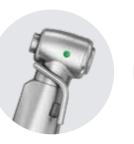
Introduction of

MULTI LED for perfect

lighting and fast,

to LED







1922 Development of the first dental instrument: the first sterilisable handpiece, Asepto, is created in 1924



1970

Introduction of the

INTRAmatic coupling,

a worldwide standard

1977-1980 The MULTIflex coupling sets a worldwide standard and later becomes the MULTIflex LUX system with integrated light

1989 The SUPERtorque 640 B is born, the first instrument with a robust light rod thanks to the bundling of 3,000 optical fibres

INTRA LUX KL701 motor, the world's smallest dental micromotor of its time

2010 2014

MASTERsurg surgical unit with one-touch economical switching calibration and instrument checking

2020 SURGmatic S201 XL Pro, hexagon clamping system enabling 80 Ncm torque and an

outstanding lifetime

2024 MASTERmatic M45 L with an unique head/knee angle combination for great access and visibility in the molar area

1909

KaVo is founded in 1909 in Berlin-Steglitz by Alois Kaltenbach with a mission to deliver "quality and precision"



1984

SONICflex 2000, the start of a unique air scaling success story that continues to this day

2003

GENTLEpower, low-vibration operation thanks to new triplegear technology



2013

MASTERtorque

M9000 L with Direct

Stop Technology

and improved

performance

2008 DIAGNOdent pen, caries detection based on laser fluorescence technology, with no X-rays or mechanical stress



2018

PROPHYflex 4, the first powder jet device based on the mixing chamber principle for targeted work

2021

DIAGNOcam Vision Full HD, one camera for three diagnostically relevant images in full HD resolution within one second











- 4 -KaVo - 5 -

KaVo



KaVo Dental Excellence Brand Promise

What we stand for as a brand

KaVo is a well-established brand with a strong legacy. Our brand and our products represent the highest possible quality and reliability – and have done for over 100 years. This gives our customers peace of mind, so that they can concentrate on doing their best work.

To achieve this, KaVo combines the fundamentals of ergonomics, optimized hygiene, and design into the best overall package without compromise. The perfect interplay of dynamics and expertise keep us at the forefront of modern dentistry.



Treatment Units



Instruments



Imaging



Dental Training

Portfolio Statements



Treatment Units

KaVo Treatment Units - Invest in your own health

A KaVo Treatment Unit is a reliable partner. Only KaVo Treatment Units ensure a natural posture providing exceptional freedom of movement with short gripping distances, creating the perfect ergonomic solution for every treatment situation, no matter how complex.

Our claim: We combine the highest hygiene and operational standards with aesthetically-pleasing design to create a positive experience for both users and patients.

This perfectly coordinated overall package is completed by a long service life and total reliability – i.e. the Made in Germany promise.



Instruments

KaVo Instruments - Feel the difference

Our instruments are created with the finest ingredients, developed exclusively for our products.

In combination with our unique product architecture - created from solid stainless steel rods - instruments that are extraordinarily precise and durable are fully created in our own factory.

We are the origin of today's dental instrument standards. Over a century of innovation is reflected in the design and function of our instruments today. The result - maximum user performance through ultra-precise and fatigue-free use.



Imaging

KaVo Imaging - See more, plan better

The combination of 35+ years of experience in the development of imaging systems, and the innovative strength of an owner-managed family business form the basis for our KaVo ProXam X-ray portfolio in both the intra- and extraoral areas.

 $Perfectly \ tailored \ to \ the \ patient, \ we ensure \ the \ lowest \ possible \ radiation \ exposure \ with \ maximum \ clinical \\ benefit \ and \ support \ fast, \ comfortable \ positioning \ with \ optimum \ accessibility.$

This most robust foundation, combined with high-tech components, brilliant image quality, a world-leading software platform with open interfaces and a broad sales and service network, all add up to a secure investment in your future.



Dental Training

Dental Training - Excellent learning

Our wealth of experience from over 100 years of innovation in the field of instruments and treatment units and over 35 years in the field of imaging systems form the basis for the highest quality products for dental education. With a flexible, customizable and functional portfolio, which we are continuously developing, we create the most accurate training scenarios for dental students.

KaVo provides support with the conception, room design, configuration and implementation to perfect your ideas and to create virtual training environments that are as realistic as being in practice.

By experts, for experts

KaVo instruments are created from the best materials according to your requirements.

In fact, everything starts with what you need

The development of a KaVo instrument often begins in dental practices like yours. During numerous technical discussions around the world, we take note of your requirements and suggestions and, from those, derive the features for new KaVo instruments. For example, a refined instrument head size for a better view of your work, easier hygiene and any specific requirements from your specialist area of work: what you come up with sets the goals pursued by our product developers.







6 MILL.

instruments sold worldwide are proof of Dental Excellence.

The future is made in Biberach

To ensure new KaVo instruments not only meet the highest requirements, but also far exceed them, innovations at KaVo are all about teamwork. Specialists in design, development, marketing and sales all work together on-site in Biberach throughout the entire product development phase. Preliminary drawings become 3D data, and initial material samples become final prototypes. Once everyone is satisfied, production tests begin for the KaVo instruments that you will later be thrilled to use every day at your practice.



Tested in Biberach, proven in practice

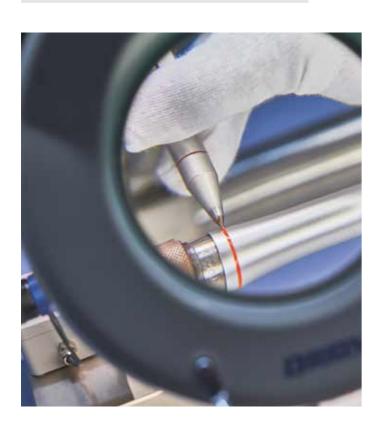
To ensure KaVo instruments can cope with the tough conditions they will face in practice, they have to pass some very rigorous tests. In our development laboratories, we simulate the kind of stress that equipment will encounter during years of use. Can the instrument complete several billion rotations with no problems? Is the retention force at the bur really as high as 30 newtons? Does the turbine still stop in less than a second after being used for the thousandth time thanks to Direct Stop Technology? Once the quality and performance of our instruments is beyond any doubt, pre-production testing is concluded and serial production can begin.

Made in Biberach Everything is made by us! Biberach — the home of quality.



95%

of all parts for KaVo instruments are produced in Biberach.



11,500 m² space for the narrowest of margins (in the μ range)

Other suppliers still have their head office in Germany, but outsourced their production long ago. KaVo, however, insists on a 100% 'Made in Germany' approach for its instruments. This means all our instruments are made exclusively at the main plant in Biberach. But the most important factor in ensuring the legendary KaVo quality is our 'vertical integration' of at least 95%. This means almost all components (of which there can be up to 50) in a KaVo instrument are also manufactured in Biberach and are therefore subject to the same stringent quality control.

From delivery of the raw materials to the final inspection of the finished instruments, the 400-plus highly qualified employees at the 11,500 m² production facility are focused on the tiniest details. Ultra-precise production, based on tolerances in the μ range (one μ equals 0.001 mm), ensures that you in turn can work with real precision at your practice.

100%

quality, from the raw materials to the finished instrument. All from a single source.

Ultra-clean quality inside, dust kept outside

The final assembly of many KaVo instruments is performed in special dust-free rooms. To stop even the smallest dust particle impairing the great quality associated with KaVo, the air is constantly cleaned and purged. Temperature, humidity and air pressure are also kept constant. This is the only way that each individual KaVo instrument can pass its thorough final inspection prior to delivery.



440

highly qualified employees with an average seniority of over 20 years, ensure the instruments produced deliver the quality associated with KaVo.



Quality pays — every single day

KaVo has now sold over 6 million instruments worldwide. This includes the KaVo EXPERTmatic E25 L, which is one of the most successful instruments ever (with over 100,000 units produced). But for KaVo, quality both today and in the future is more important than previous sales figures. And this is why every single instrument undergoes final testing – and a final polish – prior to delivery. So it can make a dazzling impression at your practice for the whole of its working life.

98%

re-purchase rate for instruments shows just how satisfied our customers are.



MASTER series

Enjoy maximum power

with KaVo's most innovative comfort.

- Best treatment quality
- Maximum treatment comfort
- Highest patient satisfaction



EXPERT series

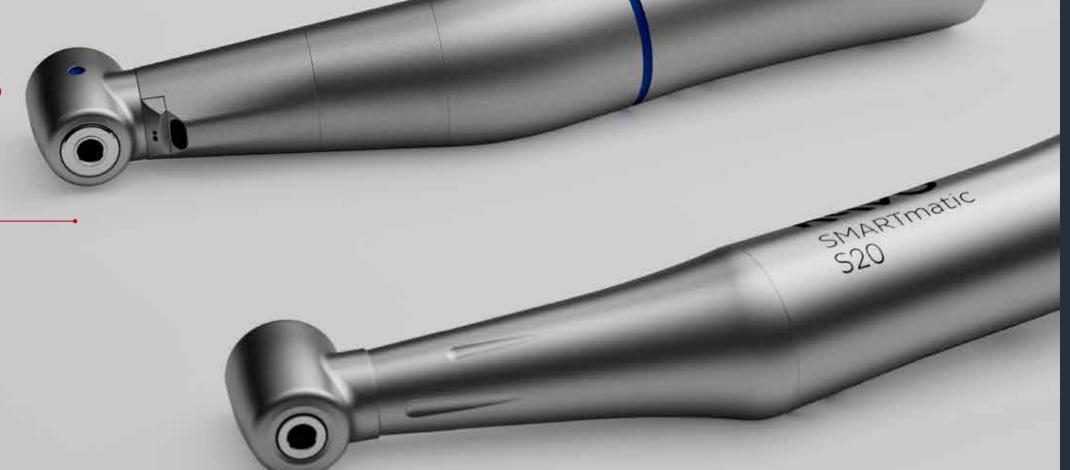
Rely on KaVo's advanced performance.

- Maximum longevity
- Efficient operations
- Reliable features

SMART series

Start safe with affordable KaVo quality.

- Made in Germany
- Premium materials
- Entry level price for the world of KaVo





Enjoy maximum power with KaVo's most innovative comfort.

Handpieces and contra-angles Benefits at a glance.



Optimum access

thanks to the ergonomic 100°/19° head/knee angle combination



Triple-gear technology

for ultra-smooth operation with minimal vibration



High-tech FG chuck with carbide guide bush

for optimum longevity



Flexibility thanks to exchangeable heads

for complete versatility and optimum cost effectiveness



Ceramic ball bearings

for excellent quiet and low-vibration operation



Small head size

for easy, efficient access to the preparation area



Plasmatec coating

for a perfect grip and excellent hygiene



24-month warranty

for proven quality



3-port spray

with ultra-fine spray wetting for optimum cooling



Glass rod light conductor

with up to 25,000 lux for reliable detection of the preparation margins



Low volume (only 55 dB(A))

to eliminate unpleasant noises for patients and treatment personnel



Internally channelled, separate coolant

for optimum spray results



Replaceable spray microfilter

for effective and trouble-free spray cooling



KaVo INTRAmatic coupling system

can be used with any treatment unit



KaVo push-button chuck system

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



Thermo-disinfectable

and sterilisable up to 135 °C



Made in **Germany**

-43%

KaVo M05 L

0.66 cm³

Handpieces and contra-angles

- 1. Best treatment quality
- 2. Maximum treatment comfort
- 3. Highest patient satisfaction





MASTERmatic LUX
speed-increasing
contra-angle MO5 L (1:5)
Mini head (H: 12.6 mm, diameter
9 mm) for short-shaft burs,
triple-gear technology and
replaceable spray filter, 1-port
spray, with push-button chuck,
ceramic ball bearings, head 43%
smaller than for GENTLEpower
25 LP, perfect for hard to reach
areas and ideal for treating
children and the elderly, low
volume (55 dB(A))
Mat. no. 1.009.3640



MASTERmatic LUX
speed-increasing
contra-angle M45 L (1:4,2)
Unique head/knee angle
combination for great access and
visibility in the molar area,
CoolHead Technology, carbide
guide bush, triple-gear technology
and replaceable spray filter,
3-port spray, push-button
chuck, ceramic ball bearings
Mat. no. 1.014.0280



MASTERmatic LUX
reducing shank
M29 L (7.4:1)
For endodontic applications,
glass rod light conductor
with up to 25,000 lux,
replaceable spray filter,
maximum treatment flexibility
with 14 exchangeable heads
Mat. no. 1.009.3580



reducing shank M07 L (2.7:1)
For caries excavation and
prophylaxis applications,
glass rod light conductor
with up to 25,000 lux,
replaceable spray filter,
maximum treatment flexibility
with 14 exchangeable heads
Mat. no. 1.009.3610

MASTERmatic LUX



shank M20 L (1:1)
For cavity and crown preparation, finishing, caries excavation and endodontic treatments, glass rod light conductor with up to 25,000 lux, replaceable spray filter, maximum treatment flexibility with 14 exchangeable heads

Mat. no. 1.009.3620

MASTERmatic LUX



Comparison of head volumes

Comparison with KaVo GENTLEpower 25 LP

KaVo 25 LP

1.48 cm³

-20%

KaVo M25 L

0.925 cm³

MASTERmatic LUX
handpiece
M10 L (1:1)
Suitable for handpiece
and contra-angle burs,
no replaceable spray filter, also
suitable for straightforward
extraoral work
Mat. no. 1.009.3570

- 20 -KaVo

INTRA heads

A total of 14 exchangeable heads for unlimited versatility: a single shank and optimised heads mean almost limitless options for all applications, at lower overall costs and with simpler maintenance processes.

Easy switching: KaVo INTRA heads fit all KaVo MASTERmatic shanks.



Standard preparation

M07 L (2.7:1) M20 L (1:1)



INTRA head L68 (1:1)

With push-button chuck, for contra-angle burs, diameter 2.35 mm, with debris deflector disc, max. drive speed: 40,000 rpm Mat. no. 1.008.1833



INTRA head L80 (1:1)

With push-button chuck, for burs (FG), diameter 1.6 mm, max. drive speed: 40,000 rpm Mat. no. 1.004.4456



INTRA head L68 B (1:1)

With push-button chuck, ball bearings, for contra-angle burs, diameter 2.35 mm, with debris deflector disc, max. drive speed: 40,000 rpm Mat. no. 1.008.1834



INTRA head L66 B (3:1)

With push-button chuck, ball bearings, for contra-angle burs, diameter 2.35 mm, with debris deflector disc, max. drive speed: 20 000 rpm Mat. no. 1.008.1831



INTRA Mini head L52 (1:1)

With push-button chuck, for miniature contra-angle burs (length 16 mm, diameter 2.35 mm), max. drive speed: 40,000 rpm Mat. no. 1.008.1825



INTRA head L67 (2:1)

With push-button chuck, for contra-angle burs, diameter 2.35 mm, with debris deflector disc, max. drive speed: 40,000 rpm Mat. no. 1.008.1832

Prophylaxis

M07 L (2.7:1)

M29 L (7.4:1)

INTRA Prophy head L31 (2:1)

With thread and knob, for screw-type and snap-on polishing attachments, and multiple seals to prevent ingress of polishing paste, max. drive speed: 15,000 rpm Mat. no. 1.008.1824



INTRA Endo/Prophy head L53

With push-button chuck, for polishing attachments with contra-angle shaft, diameter 2.35 mm, reciprocating rotation through 60°, max. drive speed: 3,000 rpm Mat. no. 1.008.1826



INTRA EVA head L61 G

Files rotate freely, with buffered 0.8 mm stroke, e.g. for files made by Intensiv Co., max. drive speed: 20,000 rpm Mat. no. 1.008.1828



INTRA EVA head L61 R

36 separate locking positions for locking files, with buffered 0.8 mm stroke, e.g. for files made by Intensiv Co., max. drive speed: 20,000 rpm Mat. no. 1.008.1829



INTRA Endo/Prophy head L53

With push-button chuck, for root canal instruments with contra-angle shaft, diameter 2.35 mm, reciprocating rotation through 60°, max. drive speed: 3,000 rpm Mat. no. 1.008.1826



INTRA LUX Endo head L3

With push-button chuck, for manual root canal instruments with grip with diameter 3.5-4.0 mm, reciprocating rotation through 60°, max. drive speed: 3,000 rpm Mat. no. 1.008.1822



INTRA Endo head L3 Y

With push-button chuck, for manual root canal instruments with grip, diameter 3.5-4.0 mm, stroke 0,4 mm, file receptacle rotates 360°, max. drive speed: 3,000 rpm Mat. no. 1.008.1823



INTRA head L62 (10:1)

With push-button chuck, for contra-angle burs and root canal filler instruments, max. drive speed: 2,000 rpm Mat. no. 1.008.1830



INTRA head L68 B (1:1)

Endodontics

With push-button chuck, ball bearings, for root canal instruments with contraangle shaft, diameter 2.35 mm, max. drive speed: 40,000 rpm, suitable for endo function of the ESTETICA E50 Life. KaVo uniQa and ESTETICA E70/E80 Vision in combination with MASTERmatic M20 L Mat. no. 1.008.1834

M20 L (1:1)



INTRA head L66 B (3:1)

With push-button chuck, ball bearings, for root canal instruments with contra-angle shaft, diameter 2.35 mm, max. drive speed: 20,000 rpm, suitable for endo function of the ESTETICA E50 Life, KaVo uniQa and ESTETICA E70/E80 Vision in combination with MASTERmatic M20 I

Mat. no. 1.008.1831

Surgery

M20 L (1:1)



INTRA Micro head L22 (1:1)

With round bur (size 2), and U-inverted cone bur (size 0), for microsurgery, max. drive speed: 20,000 rpm Mat. no. 1.008.1835



Turbines Benefits at a glance.



Optimum access

thanks to ergonomic 100°/19° head/knee angle combination



Replaceable spray microfilter

for effective and trouble-free spray cooling



Ceramic ball bearings

for excellent quiet and low-vibration operation



KaVo push-button chuck system

with a retention power of up to 32 N for secure retention of the bur



Overall height 13.1 mm (standard version) or 12.1 mm (mini version) for good access and overview

Plasmatec coating

for a perfect grip and



Thermodisinfectable

and sterilisable up to 135 °C



Direct Stop Technology

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



24-month warranty



excellent hygiene

for proven quality



Non-return feature

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



with ultra-fine spray wetting for optimum cooling



Glass rod light conductor

with up to 25,000 lux for reliable detection of the preparation margins



Low volume (only 57 dB(A))

to eliminate unpleasant noises for patients and treatment personnel



Optimum view

thanks to offset light and spray outlets



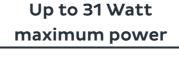
Maximum power

of up to 31 watts for more efficient work



High-tech FG chuck with carbide guide bush

for optimum longevity



Minimal head size





MASTERtorque LUX

Head height 13.1 mm, maximum power up to 31 watts*, up to 57 dB(A), 4-port spray M9000 L: Mat. no. 1.008.7900 M9000 L chocolate brown: *Mat. no. 1.007.9900* M9000 L anthracite: Mat. no. 1.007.7100

MASTERtorque Mini LUX

Small head: head height 12.1 mm, 30 watts of power*, up to 59 dB(A), for standard and miniature burs, 3-port spray M8700 L: Mat. no. 3.001.0000

Third-party couplings

MASTERtorque LUX

Like M9000 L, fits Sirona click&go coupling** M9000 LS: Mat. no. 1.008.5400

MASTERtorque Mini LUX

Like M8700 L, fits Sirona click&go coupling** M8700 LS: Mat. no. 3.001.0600

 $^{^{\}star}\;$ At 3.5 bar. Power depends on drive pressure and other parameters.

^{**} Registered trademark of Sirona Dental Systems GmbH.



Rely on advanced KaVo performance.

Handpieces and contra-angles Benefits at a glance.



High-tech FG chuck with carbide guide bush

for optimum longevity



Ceramic ball bearings

for excellent quiet and low-vibration operation and high-quality, low-wear materials such as a stainless steel head



Small head size

for easy, efficient access to the preparation area



EXPERTgrip surface

for fast cleaning and excellent grip



24-month warranty

for proven quality



3-port spray

with ultra-fine spray wetting for optimum cooling



Glass rod light conductor

with up to 25,000 lux for reliable detection of the preparation margins



Low volume (only 57 dB(A))

to eliminate unpleasant noises for patients and treatment personnel



Internally channelled, separate coolant

for optimum spray results



Replaceable spray microfilter

for effective and trouble-free spray cooling



KaVo INTRAmatic coupling system

can be used with any treatment unit



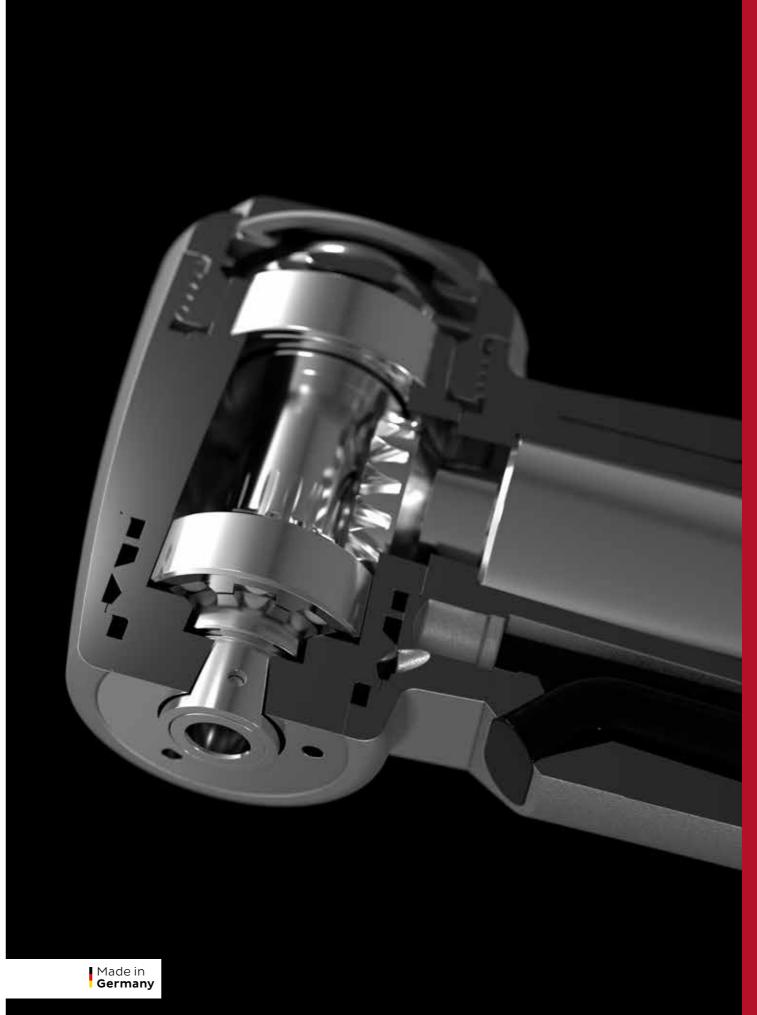
KaVo push-button chuck system

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



Thermo-disinfectable

and sterilisable up to 135 °C



Handpieces and contra-angles

- 1. Maximum longevity
- 2. Efficient operations
- 3. Reliable features





EXPERTmatic LUX contra-angle E20 L (1:1)

Glass rod light conductor with up to 25,000 lux, efficient access thanks to even smaller head, 1-port spray, internally channelled spray water and spray air, easy to handle thanks to flexible latch Mat. no. 1.007.5540



EXPERTmatic LUX reducing contra-angle E15 L (5.4:1)

Glass rod light conductor with up to 25,000 lux, efficient access thanks to even smaller head, 1-port spray and internally channelled spray water and spray air, easy to handle thanks to flexible latch Mat. no. 1.007.5530



EXPERTmatic handpiece E10 C (1:1, without light)

1-port spray, internally channelled spray water and spray air, suitable for both handpiece and contra-angle burs *Mat. no. 1.007.5560*



EXPERTmatic prophylaxis contra-angle E31 C (5.4:1, without light)

Keeps out polishing paste thanks to multiple seals, with thread and knob, for screw-type and snap-on polishing attachments Mat. no. 1.008.4998



polishing in interdental spaces, for approximal enamel reduction etc., buffered 0.8 mm stroke, precise locking for files thanks to 36 locking positions Mat. no. 1.008.4999





EXPERTmatic contra-angle E20 C (1:1, without light)

Efficient access thanks to even smaller head,
1-port spray, internally channelled spray water and spray air, easy to handle Mat. no. 1.007.5541



EXPERTmatic reducing contra-angle E15 C (5.4:1, without light)

Efficient access thanks to even smaller head, 1-port spray, internally channelled spray water and spray air, easy to handle Mat. no. 1.007.5531





Turbines Benefits at a glance.



Optimum access

thanks to ergonomic 100°/19° head/knee angle combination



Ceramic ball bearings

for excellent quiet and low-vibration operation



Small head size

Overall height 13.6 mm (standard version) or 12.2 mm (mini version) for good access and overview



EXPERTgrip surface

for fast cleaning and excellent grip



24-month warranty

for proven quality



4-port spray

with ultra-fine spray wetting for optimum cooling



Glass rod light conductor

with up to 25,000 lux for reliable detection of the preparation margins



Low volume (only 62 dB(A),

average production quality: 59 dB(A))

to eliminate unpleasant noises for patients and treatment personnel



Replaceable spray microfilter

for effective and trouble-free spray cooling



KaVo push-button chuck system

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



Thermodisinfectable

and sterilisable up to 135 °C



Maximum power

of up to 29 watts for efficient work



High-tech FG chuck with carbide guide bush for optimum longevity



Small head size

Without light



EXPERTtorque LUX E680 L

Head height 13.6 mm, up to 29 watts of power*, 4-port spray, glass rod light conductor, up to 62 dB(A) (average 59 dB(A)) Mat. no. 1.006.8700



EXPERTtorque Mini LUX E677 L

Small head: head height 12.2 mm, for standard and miniature burs, 27 watts of power*, 3-port spray, glass rod light conductor, up to 65 dB(A) (average 59 dB(A)) Mat. no. 1.007.3600



EXPERTtorque E680 C (without light)

Up to 29 watts of power*, 4-port spray, head height 13.6 mm, up to 62 dB(A) (average 59 dB(A)) Mat. no. 1.006.9000

Third-party couplings

EXPERTtorque LUX

Like E680 L, fits Sirona click&go coupling** or NSK FlexiQuik coupling** E680 LS**: Mat. no. 1.006.4600 E680 LN**: Mat. no. 1.006.4700

EXPERTtorque Mini LUX

Like E677 L, fits NSK FlexiQuik coupling** E677 LN**: Mat. no. 1.006.0100

Germany

^{*} At 3.5 bar. Power depends on drive pressure and other parameters.

^{**} Registered trademark of Sirona Dental Systems GmbH or NSK.



Start safe with affordable KaVo quality.

Handpieces and contra-angles Benefits at a glance.



100% made in Germany

All instruments are developed and produced exclusively in Germany



Extremely precise ball bearings

for long-lasting smooth operation and a high degree of efficiency



Small head size

for easy, efficient access to the preparation area



Internal spray transmission to the spray clip

for a quick changeover of instruments on all motors



Ceramic slider within the clamping system

for enduring and secure tool holding



High-quality, seamless surfaces

for rapid cleaning and flawless hygiene



Lightweight

for tireless working



Optimum balance

for precise treatment



Premium materials

Rust-free stainless steel for long-lasting durability and low running costs



Suitable for all requirements

whether you're pursuing restorative, endodontics or prophylaxis



KaVo INTRAmatic coupling system

can be used with any treatment unit



Thermo-disinfectable

and sterilisable up to 135 °C



- 36 -KaVo

12-month warranty

for proven quality



Handpieces and contra-angles

- 1. Made in Germany
- 2. Premium materials
- 3. Entry level price for the world of KaVo





SMARTmatic S10 S (1:1) with external spray Suitable for handpiece and contra-angle burs, internal spray transmission to the spray clip, max. drive speed: 40,000 rpm S10 S | Mat. no. 1.011.6732 Also available without spray S10 | Mat. no. 1.011.6730



SMARTmatic ENDO S81 (8:1) For endodontic files with shaft diameter 2.35 mm, max. drive speed: 40,000 rpm Mat. no. 1.011.6780



SMARTmatic ENDO S321 (32:1) For endodontic files with shaft diameter 2.35 mm, max. drive speed: 40,000 rpm Mat. no. 1.011.6790



SMARTmatic PROPHY S31 prophylaxis contra-angle (8:1)

Double-threaded (1-64-UNC and 1-72-UNF) for screw-type polisher / brushes, unscrewable holder for Snap-on polishing applications, sealing to prevent intrusion of paste, max. drive speed: 20,000 rpm Mat. no. 1.011.6760



SMARTmatic PROPHY S19

prophylaxis handpiece (8:1)
For disposable prophylaxis
heads, Doriot shaft/
clamping system,
max. drive speed: 20,000 rpm
Mat. no. 1.011.6740



SMARTmatic PROPHY S33 prophylaxis

contra-angle (8:1)
70° oscillating rotation
direction, sealing to prevent
intrusion of paste, holder for
Snap-on polishing applications, max. drive speed:
20,000 rpm
Mat. no. 1.011.6800



SMARTmatic S53 prophylaxis and endo contra-angle (8:1)

70° oscillating rotation direction, usable with polishers and endodontic files with shaft diameter 2.35 mm, max. drive speed: 20,000 rpm Mat. no. 1.011.6810

Turbines Benefits at a glance.



Ceramic bearings

for excellent quiet work with reduced vibrations



4-port spray

with ultra-fine spray wetting for optimum cooling



Small head size

Overall height of 14.5 mm (standard version) or 12.3 mm (mini version) for good accessibility and overview



Glass rod

light conductor

with up to 25,000 lux for reliable detection of the preparation margins



KaVo push-button chuck system

with a retention power of up to 30 N for secure bur retention



High-tech FG chuck with carbide guide

for optimum longevity



Thermo-disinfectable

and sterilisable up to 135 °C





12-month warranty

for proven quality



SURGtorque S459 L

45° head with push-button chuck, Glass rod light conductor, Water jet without air, Rear air exhaust guides air away from the operation area by side vents, Ceramic ball bearing, fits MULTIflex LUX coupling





High power

Small head size

Without light



SMARTtorque LUX S619 L

Standard head, glass rod light conductor, 26 watts of power*, ceramic bearings, made in Germany, pushbutton chuck, 4-port spray, hard tungsten carbide bur guiding bush, hardened push button chuck Mat. no. 1.008.1641



SMARTtorque Mini LUX S615 L

Miniature head, 22 watts of power*, ceramic bearings, made in Germany, glass rod light conductor, pushbutton chuck, 1-port spray, hard tungsten carbide bur guiding bush, hardened push button chuck Mat. no. 1.008.1643



SMARTtorque S619 C

Standard head, 26 watts of power*, ceramic bearings, made in Germany, pushbutton chuck, 4-port spray, hard tungsten carbide bur guiding bush, hardened push button chuck Mat. no. 1.008.1642

Fix coupling turbines

45° Head

High power

Small head size



SURGtorque S459 C

45° head with push-button chuck, Water jet without air, Rear air exhaust guides air away from the operation area by side vents, Ceramic ball bearing, 4-hole standard connection

Mat. no. 3.000.5063



SMARTtorque S609 C (without light)

Standard head, 4-hole standard connector, 26 watts of power*, ceramic bearings, made in Germany,4-port spray Midwest, hard tungsten carbide bur guiding bush, hardened push button chuck Mat. no. 1.008.1644



SMARTtorque Mini S605 C (without light)

Miniature head, 4-hole standard connector, 22 watts of power*, ceramic bearings, made in Germany, 1-port spray Midwest, hard tungsten carbide bur guiding bush, hardened push button chuck Mat. no. 1.008.1645



* At 3.0 bar; Power depends on drive pressure and other parameters.



Motors

Electric motors Air motors



INTRA LUX motor KL 703 LED

The perfect combination of power and comfort: fatigue-free work thanks to reduced weight and optimum balance. SMARTdrive means the motor is up to speed after just 100 revolutions. Thanks to a brushless motor and a maintenance-free LED light, the motor offers an extremely long service life.



Brushless motor, speed range from 100 to 40,000 rpm, controlled torque output, up to 3 Ncm torque, sterilisable, KaVo MULTI LED replaceable by user, 36-month warranty

Mat. no. 1.007.0150



INTRA LUX motor KL 701

Brushless motor, speed range from 2,000 to 40,000 rpm, torque 2.7 Ncm, KaVo MULTI LED replaceable by user, 36-month warranty *Mat. no. 1.001.8776*



INTRAmatic L-LUX motor 181 L

Speed range from 5,000 to 20,000 rpm, 4-hole LUX connection, forward and reverse running, sterilisable, INTRAmatic LUX coupling, KaVo high-pressure lamp replaceable by user, 12-month warranty Mat. no. 0.535.5210





INTRAmatic L motor 181 H

Speed range from 5,000 to 20,000 rpm, 4-hole connection, forward and reverse running, sterilisable, INTRAmatic coupling, 12-month warranty *Mat. no. 0.535.5200*





INTRAmatic L motor 181 M

Speed range from 5,000 to 20,000 rpm, forward and reverse running, sterilisable, for connection to MULTIflex couplings, INTRAmatic coupling, 12-month warranty *Mat. no. 0.535.5250*

135°C

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ELECTROmatic

The conversion kit from air to electrics.



Air-to-electric motor conversion kit (controller, tubing, brushless electric motor and fixtures) for any treatment unit. Easy retrofitting of existing air-driven treatment units. It allows the dentist to upgrade to an electric motor and all its advantages within minutes.



ELECTROmatic with KL 703 LED motor | Mat. no. 1.012.8537

ELECTROmatic

Highest power and constant speed at high load

- Perfect balance of the system due to the lightweight motor and tube
- · SMARTdrive sensorless control allows high torque at low speed ranges.
- The LED light gives up to 25,000 lux to the preparation margin.
- · Spray water regulation is easy on the motor tube.
- Automatic dynamic speed regulation and calibration system allows auto set-up of system air pressure and always max. speed at changing air pressure within a high pressure range.
- Easy, 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
- Standard tube 1,750 mm (long tube 2,200 mm available)

ELECTROmatic Plus

The solution for all high- and low-speed applications

Same features than for ELECTROmatic plus:

- LCD Colour Display with 3 speed programs for fast switch between 100 and 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
- Standard tube 1,750 mm (long tube 2,200 mm available)



ELECTROmatic Plus with KL 703 LED motor | Mat. no. 1.012.8541

40 000 AND AND SELECTROMERS

ELECTROmatic Premium with KL 703 LED motor *Mat. no. 1.012.8545*

ELECTROmatic Premium Dual with 2x KL 703 LED motor Mat. no. 1.012.8547

ELECTROmatic Premium/Premium Dual

Workflow at its best

- All-in-one device with a special prep and endo mode (torque controls)
- 5 speed programs in prep mode with display of speed set, very easy to adjust with a slider
- Integrated endo file database for easy set-up of endo torque and speed settings with different files
- **NEW since 2021:** With reciprocating file system TF-Adaptive from KERR
- · Intuitive handling due to integrated 4.3" TFT colour touchscreen display
- Vivid colour touch display with speed slider for fast set-up
- Touchscreen 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.
- 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.
- Dimensions: 150 x 135 x 76 mm
- Standard tube 1,750 mm (long tube 2,200 mm available)
- Display can be installed remotely

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KaVo

Couplings

Spray adjustment

With light





With KaVo MULTI LED, 4-hole LUX connection, spray adjustment ring with locking positions, anti-retraction valve to prevent intrusion of spray water Mat. no. 1.007.3197



 \mathfrak{M}

MULTIflex LUX coupling 465 LRN With KaVo high-pressure lamp, 4-hole LUX connection, spray adjustment ring with locking positions, anti-retraction valve to prevent intrusion of spray water Mat. no. 0.553.1550

Spray adjustment

Without light



MULTIflex coupling 465 RN

With 4-hole standard connection, spray adjustment ring with locking positions, anti-retraction valve to prevent intrusion of spray water Mat. no. 0.553.1600



Without spray adjustment

With light





MULTIflex LED coupling 460 LED

With KaVo MULTI LED, 4-hole standard connection without spray adjustment ring, anti-retraction valve Mat. no. 1.007.3201







MULTIflex LUX coupling 460 LE

With KaVo high-pressure lamp, 4-hole standard connection without spray adjustment ring, anti-retraction valve Mat. no. 1.001.7599

Without spray adjustment

Without light





MULTIflex coupling 460 E

With 4-hole standard connection without spray adjustment ring, anti-retraction valve Mat. no. 1.001.7600







MULTIflex coupling 457

With 4-hole standard connection without spray adjustment ring, anti-retraction valve Mat. no. 0.553.1210





Switching to LED



MULTI LED

Screw in the KaVo MULTIflex 465 LED coupling at the turbine hose or replace the halogen lamp in the KaVo MULTIflex coupling with KaVo MULTI LED and start working with LED light immediately – for a much longer service life than conventional halogen lamps, a colour temperature similar to daylight (5,500 K) and 25,000 lux at the bur tip Mat. no. 1.007.5372

Special connections





MULTIflex LUX coupling Midwest

Fits Midwest cold light supply, with integrated glass rod light conductor Mat. no. 0.553.1390



All MULTIflex couplings come with a 12-month warranty and fit all of the following:

- Turbines
- PROPHYflex 4
- · and many more

- SONICflex
- RONDOflex plus 360

SONICflex The great all-rounder for almost any indication.

Thanks to its versatility, the KaVo SONICflex will soon become one of your most frequently used instruments. With more than 50 tips, which are quick and easy to replace, it adapts to your requirements across a vast range of applications.

Gentle oscillation

perfect for patients sensitive to pain

Very broad range of indications and uses

for gentle approaches to treatment

No additional devices necessary

just attach to the KaVo MULTIflex or Sirona coupling

SONICflex 2000 N

SONICflex handpiece 2000 N, with tip no. 5, without light $\it Mat.\,no.\,0.571.5020$

SONICflex 2003

SONICflex set 2003 L with tips no. 5/6/7, with light *Mat. no. 1.000.8333*

SONICflex handpiece 2003 L, with light

Mat. no. 1.000.4243

SONICflex set 2003 with tips no. 5/6/7, without light

Mat. no. 1.000.8334

SONICflex handpiece 2003, without light

Mat. no. 1.000.4246

SONICflex quick 2008

SONICflex quick set 2008 L, with tips no. 5A/6A/7A, with light Mat. no. 1.007.1604

SONICflex quick handpiece 2008 L, with light *Mat. no. 1.005.9310*

SONICflex quick set 2008 LS*, with tips 5A/6A/7A, with light $\it Mat.\,no.\,1.007.1605$

SONICflex quick handpiece 2008 LS*, with light

SONICFlex quick set 2008, with tips 5A/6A/7A, without light

SONICflex quick handpiece 2008, without light *Mat. no. 1.005.9311*

24-month warranty

for SONICflex 2003 and SONICflex 2008

12-month warranty

for SONICflex 2000 N

* Fits Sirona Dental Systems GmbH click&go coupling — a registered trademark o



SONICflex tips

Prophylaxis

Removal of large areas of calculus:



Scaler tip no. 5 | universal 5: 0.571.5171 / 5A: 1.005.8949

Scaler tip no. 6 | sickle 6: 0.571.5181 / 6A: 1.005.8950

Removal of supragingival and subgingival calculus:



7: 0.571.5191 / 7A: 1.005.8951

Scaler tip no. 8 | perio, extra long 8: 0.571.5371 / 8A: 1.006.1953

Scaler tip set no. 5/6/7 Set: 1.000.4983/ Set A: 1.005.9328

Removal of plaque, cleaning of fissures, cleaning of cavities and crown preparations:



Periodontology

Gentle pocket cleaning up to 9 mm deep:



For anterior teeth area, smooth surfaces:

Paro tip no. 60 | long, straight tip, rounded surface 60: 0.571.7402 / 60A: 1.006.1934



For premolars, molars:

Paro tip no. 61 | angled tip, left, rounded surface



rounded surface 62: 0.571.7422 / 62A: 1.006.1936 Paro tip set *no*. 60 / 61 / 62 Set: 0.571.0371 / Set A: 1.006.2020

Paro tip no. 62 | angled tip, right,

Removal of subgingival plaque and calculus around implants:



Implant set | wedge-shaped tips, single-use plastic head Implant refill (30 pcs): 1.003.8168

For difficult to reach furcations, enables access to approximal furcations, even in cases of unbroken lines of dentition:



Rootplaner tip no. 24 | contra-angled button, small, left, diamond coating D25 24: 0.571.5621 / 24A: 1.006.1957

Rootplaner tip no. 25 | contra-angled button, small, right, diamond coating D25 25: 0.571.5631 / 25A: 1.006.1959

Cleaning of smooth surfaces and concavities:



Rootplaner tip no. 26 | universal, button, small, diamond coating D25 26: 0.571.5641 / 26A: 1.006.1961



Rootplaner tip no. 27 | perio, button, large, diamond coating D25 27: 0.571.5651 / 27A: 1.006.1963

Important information regarding material numbers:

XX: Tip for SONICflex 2003/2000 (long thread) XXA: Tip for SONICflex 2008 (short thread)

Minimally invasive

Minimally invasive treatment, for incipient caries:



Micro tip no. 30 | small hemisphere, mesial, diamond coating D46 30: 0.571.6811 / 30A: 1.006.1969



Micro tip no. 31 | small hemisphere, distal, diamond coating D46 31: 0.571.6801 / 31A: 1.006.1971



Micro tip no. 32 | large hemisphere, mesial, diamond coating D46 32: 0.571.6831 / 32A: 1.006.1973



Micro tip no. 33 | large hemisphere, distal, diamond coating D46 33: 0.571.6821 / 33A: 1.006.1975

Bevelling of approximal cavity edges:



Bevel tip no. 58 | mesial, diamond coating D46 58: 0.571.7392 / 58A: 1.006.1988

Bevel tip no. 59 | distal, diamond coating D46 59: 0.571.7382 / 59A: 1.006.1990

Minimally invasive preparation of fissures, no pain when opening fissures:



Seal tip no. 45 | conical, straight tip, diamond coating D46

Ultra-conservative, sono-abrasive caries excavation, fine:



Cariex 0.8 tip no. 42 | ball, diameter 0.8 mm, diamond coating D64 42: 1.000.7105 / 42A: 1.006.1980



Cariex 1.2 tip no. 43 | ball, diameter 1.2 mm, diamond coating D64 43: 1.000.7167 / 43A: 1.006.1981

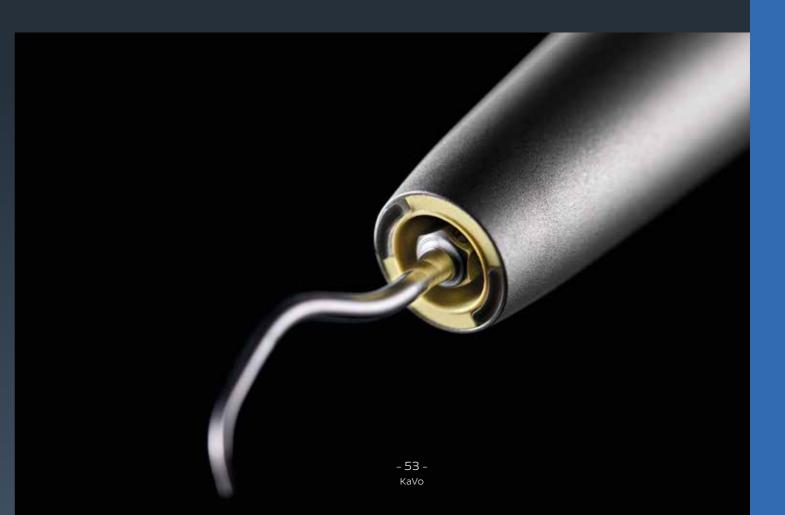
Layer-by-layer removal of most carious tissue:



Cariex 1.0 tip no. 71 | ball, diameter 1.0 mm, hard metal 71: 1.000.7362 / 71A: 1.006.2002



Cariex 1.4 tip no. 72 | ball, diameter 1.4 mm, hard metal 72: 1.000.7363 / 72A: 1.006.2004





Important information regarding material numbers:

XX: Tip for SONICflex 2003/2000 (long thread)
XXA: Tip for SONICflex 2008 (short thread)

Perfect adaptation of cavity preparations to the specific processes of CAD/CAM systems:



Prep CAD/CAM tip no. 34 | mesial, lateral 60°, cervical 90°, diamond coating D46 34: 1.002.1984 / 34A: 1.006.1977



Prep CAD/CAM tip no. 35 | distal, lateral 60°, cervical 90°, diamond coating D46 35: 1.002.1986 / 35A: 1.006.1979

Crown preparation, ideal combination of rotating crown preparation instruments with sonically vibrating tips of similar design:



Chamfer preparation: Crown prep tip no. 97 | radius, diamond coating D46 97: 1.008.6383 / 97A: 1.008.6384



Shoulder preparation:
Crown prep tip no. 98 | flat,
diamond coating D46
98: 1.008.6385 / 98A: 1.008.6386

Restoration

Precise preparation of various bevel angles around margins after "rough preparation" with rotary instrument; this enables improved dental restoration:



Prep gold tip no. 49 | mesial, tips with defined bevel angles: lateral 30-45°, cervical 30°, diamond coating D46
49: 0.571.7212 / 49A: 1.006.1983



Prep gold tip no. 50 | distal, tips with defined bevel angles: lateral 30-45°, cervical 30°, diamond coading D46

Gentle placement of inlays:



Cem tip no. 12 | with rounded plastic cap 12: 0.571.5431 / 12A: 1.006.2021 Cem attachment: 0.571.7142

Root tip resection

Searching for/locating root canal. Simplifies work associated with retrograde cavity preparation:



Retro tip no. 56 | extremely narrow, cylindrical tip, left, diamond coating D46 56: 0.571.7322 / 56A: 1.006.2040



Retro tip no. 57 | extremely narrow, cylindrical tip, right, diamond coating D46 57: 0.571.7332 / 57A: 1.006.2041

Preparation of the undercut; axially aligned root canal preparation with minimal bone defects:



Retro tip no. 20 | pear-shaped, small, left, diamond coating D64 20: 0.571.5521 / 20A: 1.006.2037



Retro tip no. 21| pear-shaped, small, right, diamond coating D64 21: 0.571.5561 / 21A: 1.006.2038

Preparation of root canal, significantly simplified access, even with highly convoluted roots:



Retro tip no. 16 | left, small cylinder, diamond coating D64 16: 0.571.5541 / 16A: 1.006.2036



Retro tip no. 17 | right, small cylinder, diamond coating D64
17: 0.571.5581 / 17A: 1.006.2035

For roots with apices highly inclined towards the buccal cavity:



Retro tip no. 55 | diamond coating D46 55: 0.571.7342 / 55A: 1.006.2039

Precise preparation of various bevel angles around margins, with gradual angle transitions from cervical to lateral margins:



Prep ceram tip no. 51 | mesial, tips with defined bevel angles: lateral 60°, cervical 75°, diamond coating D46 51: 0.571.7262 / 51A: 1.006.1985



Prep ceram tip no. 52 | distal, tips with defined bevel angles: lateral 60°, cervical 75°, diamond coating D46 52: 0.571.7272 / 52A: 1.006.1986

Endodontics

Shaping of access cavity, removal of protuberances:



Endo tip no. 66 | button, large, diamond coating D46 66: 1.000.5825 / 66A: 1.006.1992

Widening of larger canals:



Endo tip no. 67 | conical 125°, diamond coating D46 67: 1.000.5822 / 67A. 1.006.1994



Endo tip no. 68 | conical 112°, diamond coating D46 68: 1.000.5823 / 68A: 1.006.1996

Removal of residue from root canal fillings:



Endo tip no. 69 | button, small, diamond coating D46 69: 1.000.5827 / 69A: 1.006.1998

For particularly long and wide channels:



Endo tip no. 70 | conical 117°, diamond coating D25, anterior area not diamond-coated 70: 1.000.5821 / 70A: 1.006.2000

For rinsing of root canal, for removal of debris and smear layer as well as enhancing the performance of antibacterial rinsing solution:

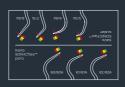


Endo clean holder no. 96 96: 1.008.5163 / 96A: 1.008.5164 Endo clean needles (6 pcs each) for all SONICflex: 015/ XF white: 1.006.2042 020/ FF yellow: 1.006.2043 025/ MF red: 1.006.2044

Accessories



Torque wrench: *1.000.4887*



Wear Indicator card for scaler and paro tips: 1.001.6958



Key: 0.411.0892

PiezoLED Prophylaxis and Implant Cleaning.

Take advantage of the possibilities offered by the high-end ultrasonic scaler. Enjoy the convenience of operating the equipment via your KaVo treatment unit. Achieve the best treatment results thanks to precise illumination.

201 202 203

Implant tip 222

PiezoLED

Where strength meets intelligence:

- Innovative KaVo CARE Technology with intelligent feedback control and high removal performance
- Fully adjustable to suit individual requirements with various mode settings
- Can be fully integrated into your treatment unit
- Perfect light quality thanks to circular LEDs
- Wear indicator card for efficient work
- Wide range of applications

Mat. no. 1.007.3995

MANO PIEZO

Prophylaxis

PIEZO Scaler tip 201

- Removes supragingival calculus:
- From secondary teeth
- From dental hard tissues: enamel *Mat. no. 1.007.4024*

PIEZO Scaler tip 202

Removes supragingival and subgingival up to 4mm calculus:

- From secondary teeth
- From dental hard tissues: ename Mat. no. 1.007.4026

PIEZO Scaler tip 203

Removes supragingival and subgingival up to 10mm calculus:

- From primary and secondary teeth- From dental hard tissues: enamel,
- dentine and cementum
 From restorations, prosthetics and
- Around orthodontic appliances

 Mat. no. 1.007.4028

Implant cleaning

PIEZO Implant tip set

dentures

Removes supragingival and subgingival up to 3mm calculus:
- From primary and secondary teeth

- From dental hard tissues: enamel and dentine
- From restorations, prosthetics and dentures
- ound implants
- Around orthodontic appliances Metal-free tip; contains holder for PIEZO Implant tips (tip 222); wrench for PIEZO Implant tip holder; one PIEZO Implant Tip refill Set Mat. no. 1.007.4008

PIEZO Implant Tip refill Set:

Contains four attachments

Laboratory Handpieces for masterpieces.





K-ERGOgrip 4944

High-power laboratory drive offering convenient solutions based on ergonomic and light design

- Short, ergonomic handpiece with 2 grip sleeves
- 7 Ncm torque
- Up to 50,000 rpmin both clockwise and anticlockwise direction
- For all common materials
- Robust shaft system
- · Easy-to-replace ball bearing
- · Chuck system with 40% higher retention power
- · Various grip sleeves with soft grip
- Easy-to-clean chuck system
- For right- and left-handed personnel Mat. no. 1.003.7555



K-POWERgrip 4941

Powerful and low-vibration laboratory drive with minimal running noise

- Max. 7 Ncm torque
- Up to 50,000 rpm in clockwise and up to 5,000 rpm in anticlockwise direction
- · For all common materials
- Easy-to-replace ball bearing Mat. no. 1.002.2916



K5 plus 4911

- Light and short laboratory drive
- Max. 4.5 Ncm torque
- Up to 35,000 rpm in clockwise and up to 5,000 rpm in anticlockwise direction
- Shaft system with just 2 ball bearings, easy to replace Mat. no. 1.001.6733







Knee control

Foot control

Table control

KaVo K-Control TLC universal control unit with options to suit individual requirements or the space available (table, knee or foot control), easy to replace handpieces thanks to automatic handpiece recognition, knee version can be attached to an existing KaVo K-Control knee hook, safety switch for enabling speeds of over 30,000 rpm, clockwise and anticlockwise rotation, depending on handpiece, of up to 50,000 rpm, 4 storable programs:

Save within 4 seconds for a 4-second speed control function, 4-colour display for easy differentiation, quick access to preset speeds and torque by simply pressing the speed control

Order numbers for combined packages

	K-Control TLC	K-Control TLC	K-Control TLC
	Knee	Foot	Table
K-ERGOgrip Power and ergonomics	Mat. no.	Mat. no.	Mat. no.
	1.005.4206	1.005.4207	1.005.4204
K-POWERgrip	Mat. no.	Mat. no.	Mat. no.
Power	1.007.2082	1.007.2084	1.007.2083
K5 plus	Mat. no.	Mat. no.	Mat. no.
Ergonomics	1.009.4244	1.009.4245	1.009.4243

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KaVo

Articulators Perfection in motion.



The ARCUSdigma 3 measures the movement paths of the temporomandibular joints and the incisal point in real time and represents these in 3D in the software. The data can be used in the PROTARevo Digma to create the perfect dental prosthesis. All PROTARevo articulators offer the precision and longevity that KaVo is famous for. Furthermore, they support many specific solutions and provide useful analysis. The ARCUS and ARCUSevo face bows help record the maxilla in the correct position – quickly, precisely and safely.



ARCUSdigma 3

- · Records temporomandibular joint (TMJ) movements quickly
- Assists in the effortless design and development of simple and complex dental prosthesis
- Fast and precise articulator programming thanks to KaVo Transfer System without applying a face bow
- Increased measuring accuracy thanks to the optical measuring process for in-depth temporomandibular joint diagnostics
- · Simple operation through wireless data acquisition
- Safety for the practitioner even with major restorations
- Modular, retrofittable software concept adaptable to your needs

Mat. no. 1.012.2320



PROTARevo

Dental articulators for perfect precision and masterful handling

Dental articulators, from the KaVo PROTARevo 2 entry-level model to the top-of-the-range PROTARevo 9, offer a winning combination of perfect precision and masterful handling. With an extensive range of accessories for almost all dental requirements.

PROTARevo 2: Mat. no. 1.002.3305

PROTARevo 3: Mat. no. 1.002.3309 (also available without split cast)
PROTARevo 5: Mat. no. 1.002.3313 (also available without split cast)
PROTARevo 5b: Mat. no. 1.002.3317 (also available without split cast)
PROTARevo 7: Mat. no. 1.002.3321 (also available without split cast)
PROTARevo 9: Mat. no. 1.002.3325 (also available without split cast)
PROTARevo Digma: Mat. no. 1.005.4121



ARCUS and ARCUSevo

KaVo face bows: your patient will thank you for it

- The face bow that records the position of the maxilla in less than 3 minutes fewer hand movements and no assistance required!
- Minimise occlusal adjustments, particularly when raising and
 lowering the bits.
- The ARCUSevo face bow can be fitted to the patient in no time at all by just one person.
- Quick, precise and safe
- The earpieces are designed to allow unrestricted communication with the patient.

ARCUS: Mat. no. 0.622.5000 ARCUSevo: Mat. no. 1.005.0900

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KaVo



SONICflex, prophylaxis tips

Important information regarding material numbers:

XX: Tip for SONICflex 2003/2000 (long thread)

XXA: Tip for SONICflex 2008 (short thread)

SONICflex for prophylaxis

Thanks to its numerous tips, SONICflex is a perfect partner for prophylaxis purposes. All the tips available, which can be used for a wide range of indications, can be found on pages 48-54.



Scaler tip no. 6 | sickle 6: 0.571.5181 / 6A: 1.005.8950



Paro tip no. 60 | long, straight tip, rounded surface 60: 0.571.7402 / 60A: 1.006.1934



Paro tip no. 61 | angled tip, left, rounded surface 61: 0.571.7412 / 61A: 1.006.1935



Scaler tip no. 7 | perio 7: 0.571.5191 / 7A: 1.005.8951





Paro tip no. 62 | angled tip, right, rounded surface 62: 0.571.7422 / 62A: 1.006.1936



Implant Set | wedge-shaped tips, single-use plastic head Set: 1.003.8167 / Set A: 1.006.2027 Implant Refill (30 pcs): 1.003.8168

PiezoLED, prophylaxis tips

KNVO

PiezoLED for prophylaxis

PiezoLED is fully adjustable to suit individual requirements, which also makes it ideal for prophylaxis purposes. An overview of the various tips associated with its broad range of applications can be found on page 55.



PIEZO Scaler Tip 201

Removes supragingival

- From secondary teeth
- From dental hard tissues:

Mat. no. 1.007.4024



PIEZO Scaler Tip 202

Removes supragingival and subgingival up to 4mm

- From secondary teeth - From dental hard tissues:
- Mat. no. 1.007.4026



PIEZO Scaler Tip 203

Removes supragingival and subgingival up to 10mm calculus:

- From primary and secondary
- mel, dentine and cementum
- From restorations, prosthetics and dentures.
- Around orthodontic appliances Mat. no. 1.007.4028

Cleaning powder for subgingival and supragingival treatment.

PROPHYpearls, PROPHYflex Powder and PROPHYflex Perio Powder are perfectly suited to the KaVo PROPHYflex 4 and allow for tooth cleaning that is both thorough and gentle.



KaVo **PROPHYpearls**

For an all-round clean and gentle prophylaxis

- · Indication: effective elimination of discolouration, plaque and biofilm
- · Active ingredient: calcium carbonate with a particle size of 60-70 µm, biodegradable, no salt, sugar or gluten
- · Highlights: round shape and a uniform size for optimum cleaning with minimal abrasion, 4 flavours and 2 neutral variants

PROPHYpearls flavour (80 pcs per 15 g) Neutral: Mat. no. 1.010.1826 Mint: Mat no 1 010 1828 Peach: Mat no 1 010 1829 Orange: Mat. no. 1.010.1830 Blackcurrant: Mat. no. 1.010.1831

PROPHYpearls Selection (4 times 20 pcs per 15 g) | Mixture of Mint, Peach, Orange and Black Currant: Mat. no. 1.013.4400

Bottles (4 pcs per 250 g) Neutral: Mat. no. 1.010.1798



KaVo **PROPHYflex Powder**

Polishing can be so quick.

- · Indication: highly effective elimination of discolouration, plague and biofilm
- · Active ingredient: sodium bicarbonate with a particle size of 60-70 µm, water-soluble
- · Highlights: simple, fast and highly effective treatment with 4 flavours

Sticks (80 pcs per 15 g) Orange: Mat. no. 1.007.0014 Berry: Mat. no. 1.007.0015 Cherry: Mat. no. 1.007.0016 Mint: Mat. no. 1.007.0017



KaVo **PROPHYflex Perio Powder**

For subgingival and supragingival treatment

- · Indication: efficient biofilm management in periodontal pockets and cleaning of crowns, bridges and implants
- · Active ingredient: fine glycine powder (18-22 µm), protects gums
- Highlights: very gentle and not too abrasive, suitable for efficient cleaning of pockets as well as supragingival applications on implants

Bottles (4 pcs per 100 g) Mat. no. 1.009.3732

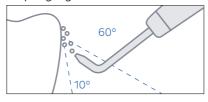
Perio Kit for PROPHYflex 4

10 perio tips for safe and targeted pocket cleaning thanks to the stable, thin tip* with depth markings and Perio Adapter as well as PROPHYflex Perio Powder and accessories

Perio Kit: Mat. no. 1.011.9403** Refill Set: Mat. no. 1.010.0287

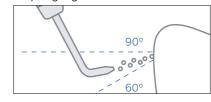


Supragingival



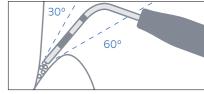


Supragingival





Subgingival



- * Each tip can be reprocessed up to 10 times.
- ** Use other mat. no. for PROPHYflex 3

The KaVo PROPHYflex 4 Perfect ergonomics has never been so flexible ...

Do you want your daily prophylaxis treatments to be easier, guicker, more thorough and even more enjoyable during longer sessions? The KaVo PROPHYflex 4 ticks all the boxes. It's feather-light, perfectly balanced and ergonomically designed for comfortable working.

The PROPHYflex Perio attachment

Optional Perio Kit for focused and gentle subgingival treatment as well as cleaning bridges, implants and

The PROPHYflex Standard cannula

Less disruptive polishing mist thanks to high precision air polishing for the gentle, protective removal of biofilm and discolouration. The narrow cannula gives the technician a better view during supragingival cleaning

The PROPHYflex Power cannula

The power cannula removes even supragingival stubborn discolouration in no time



Mat. no. 3.002.8000 Mat no 3 004 5900*



Mat. no. 3.002.8200 Mat no 3 004 5930*



Mat. no. 3.002.8800 Mat no 3 004 5950*

Further prospects: less powder mist



You will be delighted with the adjustable powder quantities and constant, focused powder jet which brings precise cleaning performance and minimised powder mist formation, for an optimal hygiene routine.

Tough against stains, gentle to teeth



Evenly distributed energy along the jet surface has two advantages: the more evenly the jet energy is distributed, the more effective the cleaning performance and the greater the protection of the tooth structure.

... and flexibility has never been so comfortable.

Because every hand, every treatment and every patient is different, the KaVo PROPHYflex 4 can be individually adjusted. You decide, whether you're working in subgingival or supragingival regions, whether to eliminate mild or severe discolouration with more or less powder and how long the handpiece should be.

The precise little cannula for pockets

Perio Kit for focused and gentle subgingival treatment as well as cleaning bridges, implants and crowns

Tailored to you

Two grip sleeves with different lengths to fit your hand perfectly. Also ideal when several practitioners work with the same handpiece. Work comfortably even at difficult-to-reach places, thanks to the 360°-rotatable grip sleeve

Stay relaxed, work with ease

A super-light, perfectly balanced handpiece with individually adjustable lengths for comfortable handling and stress-free treatment

Safely prepared for everything

Simple filling and secure placement thanks to an even surface. For interruption-free treatment, the powder container can be filled in advance and sealed with a rubber seal which shows the indication

Three is simply better

Three levels of adjustment, with the first level for powderless cleaning of the teeth to remove powder residue as well as blowing out powder residue out of the cannula. Levels 2 and 3 are for individually adjustable cleaning performances depending on the patient and indication

Finding a connection just got easier

Choice of KaVo or Sirona connection

^{**} PROPHYpearls abrasion compared to a competitor's air polishing device using calcium carbonate. Shown on SonicFill composite.

Diagnostics products and technologies at a glance.



DIAGNOcam Vision Full HD

Three instant diagnostic images from one shot: Full HD Intraoral images, Transillumination, Fluorescence

DIAGNOcam Vision Full HD: *Mat. no. 1.011.1213* (2.5 m tube)
DIAGNOcam Vision Full HD: *Mat. no. 1.013.1500* (1.3 m tube for use at treatment units)

Included in standard package (and/or to reorder)

Tip Vision Full HD: *Mat. no. 1.013.5708* (1 piece)
Fluorescence Cover Vision Full HD: *Mat. no. 1.013.5712* (1 piece)
Cradle Vision Full HD: *Mat. no. 1.013.5500* (1 piece)
Sheath Vision Full HD: *Mat. no. 1.013.5711* (100 pieces)

Additional accessories (not included in standard package)

Tip Vision Full HD: *Mat. no. 1.013.5709* (4 pieces)
Fluorescence Cover Vision Full HD: *Mat. no. 1.013.5715* (4 piece
Wall Mount Vision Full HD: *Mat. no. 1.013.0400* (1 piece)
Foot Control Vision Full HD: *Mat. no. 1.013.4952* (1 piece)



DIAGNOdent Pen

Caries detection with acoustic signals and an easy to read display

DIAGNOdent pen: Mat. no. 1.002.7000
DIAGNOdent pen Display:
Mat. no. 1.004.8400
DIAGNOdent pen sapphire fissure probe:
Mat. no. 1.002.6967
DIAGNOdent pen sapphire proximal probe: Mat. no. 1.002.6970
DIAGNOdent pen sapphire perio probe:
Mat. no. 1.004.0370

Mat. no. 1.004.0370
Storage box for DIAGNOdent pen probe

Mat. no. 1.002.70



KaVo ProXam iCam

Intraoral images with significant depth of field and outstanding colour reproduction

KaVo ProXam iCam 1,3m: *Mat.nr.* 2.023.8000 KaVo ProXam iCam 2,5m: *Mat.nr.* 2.023.8100 Camera Sheaths, 500 St.: *Mat.nr.* 2.023.800

DIAGNOcam Vision Full HD: See more and show it all: Three diagnostic images instantly from one shot.





Always sharp without setting

The permanent autofocus is always on — inside as well as outside of the mouth — and creates extremely precise, clinically relevant images without delays caused by focusing, thus avoiding retakes.



Gyro sensor for easy orientation

The image is always displayed in correct position, because the integrated gyro sensor recognizes whether you are taking a shot on the left or right side, upper or lower jaw — and aligns the recording automatically.



Best image selection integrated

To minimize the susceptibility to blurry image, the camera automatically saves recordings directly before and after the shot, selects the image with highest quality and displays it on the screen.

Permanent autofocus



Jochen KaniaDental practitioner,
Laupheim, Germany

"There are many cameras that have an autofocus function to take a sharp image. But most of the time it takes too long to get a clinically relevant shot as you have to wait for the image to sharpen. The permanent autofocus function of the DIAGNOcam Vision Full HD is completely different. It is always on, there is no need to press a button or to adjust anything. It focuses automatically and without interruption — I always get a sharp image instantly.

The result is impressive. You can barely take an image that isn't perfectly sharp — in Full HD quality. This is true regardless of whether you use the DIAGNOcam Vision Full HD as an intraoral camera, as a transilluminating device or if you are working in the fluorescence mode — or combining all of them in one shot."

With the DIAGNOcam Vision Full HD you create remarkably clear and distortion-free Full HD images in real time. In addition, all images, from face to macro shots, are optimised to keep their natural colour tones and to remain clear even when enlarged — enabling you to easily view the smallest details.

Face image

Distortion-free portraits, easily added to the patient file documentation of your Patient Management System (PMS).



Smile image

Ideal to capture the lip line and smile line — useful for dental technicians to match the colour and create perfectly aligned aesthetic anterior teeth restorations and for pre-post comparison and documentation for your patients.



Tooth image

The quick and easy way to get a first overview of the dental situation, including fillings, dental prosthesis, extractions, deformities and overall dental hygiene. Perfect for pre-post comparison and documentation for your patients.



Macro shot

Enlargement of the finest tooth and gum structures, recommended for detecting the smallest lesions, defective transitions of filling material or crowns to the tooth as well as for initial examination of root canals.



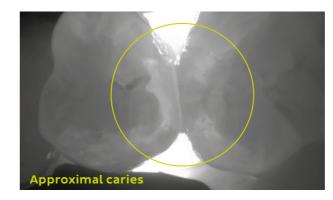
Perfectly adaptable to your existing needs

No matter if you have a KaVo treatment unit or one from another brand, if you want to use the DIAGNOcam Vision Full HD as a stand-alone device or integrate it into your Patient Management System or your X-ray software: Just pick it up from your preferred mounting option (wall, table, or treatment unit), detect and show — it's that easy.

Pure joy, clear sight: Superior hygiene concept

By using the sheaths, the DIAGNOcam Vision Full HD is protected against contamination. The tip and the fluorescence cover can be easily installed over the sheath, which does not affect the image quality. The tip and the fluorescence cover can be reused after being washed in a thermal disinfector and sterilised in autoclaves, the sheath is disposable and for single use only.

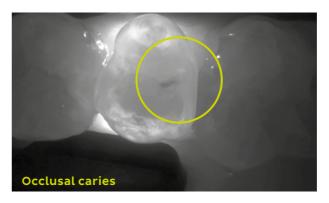
Transillumination mode: Light years ahead of caries.

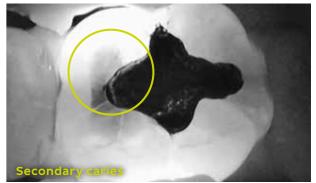


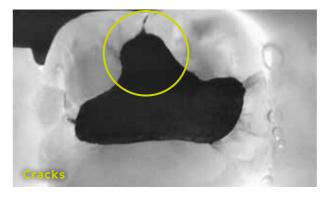
Detecting caries early is good. Detecting caries early and safely is better. Thanks to the intuitive handling, you can diagnose caries using the transillumination mode of the DIAGNOcam Vision Full HD with an extreme accuracy of up to 99%* — with almost no training at all! Clinically established and proven in practice through countless recordings.

99% accuracy

Caries diagnosis with transillumination — light years ahead. With both DIAGNOcams, light waves complement X-rays otherwise needed for caries detection, giving you exceptional image quality and detail.







- The light source inserted in the tip illuminates the tooth outwards from the neck of the tooth to the occlusal tooth surface.
- A digital camera shows the captured scenes live on the screen of your choice.
- The tooth becomes a light conductor, making the tooth structures visible. Any caries or cracks that the light comes across on its way to the tooth surface are clearly identifiable and visibly darker.

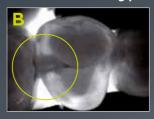
^{*} Precise diagnosis with DIAGNOcam based on: Kühnisch J, Söchtig F, Pitchika V, Laubender R, Neuhaus KW, Lussi A, Hickel R "In vivo validation of near-infrared light transillumination for interproximal dentin caries detection," Clinical Oral Investigations, May 2016.

Early caries detection with transillumination.

Transillumination uses light waves instead of X-rays. This makes it possible to take shots of coronal dental structures above the gingiva with outstanding brilliance. You can identify caries very early and carry out minimally invasive or even prophylaxis treatment.

Approximal caries diagnostics on an existing premolar









A Apart from some occlusal (brown) discoloration, clinical examination of premolar 15 fails to identify any carious process. The DIAGNOcam image **B**, however, shows extensive distal shadowing, which has already reached the dentine-enamel junction. The bitewing X-ray shot **C** reveals a carious process extending as far as the inner half of the dentine. Both of the lesions diagnosed are confirmed when the carious process is opened as the filling is inserted **D**.

Occlusal caries diagnostics on an existing molar (hidden caries)







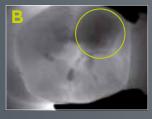


A The visual examination of the occlusal surface of tooth 46 does not provide any reliable evidence of caries-related discoloration or the like.

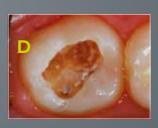
The DIAGNOcam image B shows some shadowing in the distal section of the central fissure, which also shows up as an area of brightness in the X-ray image C. Once opened up, the carious process D shows some carious dentine.

Occlusal caries diagnostics on an existing molar (hidden caries)









A Tooth 37 shows an established occlusal carious lesion with several localised areas where the enamel is broken. Demineralisation can be seen near the mesiobuccal cusp, which shows up as a dark shadow in the DIAGNOcam image **B**. The corresponding X-ray image **C** shows an advanced dentine lesion. Once the carious process is opened up, as can be seen in image **D**, the active nature of the lesion and the undermining effect of the caries becomes visible

Extract from the clinical study on the KaVo DIAGNOcam | Ludwig-Maximilians-University Munich, 2013 Available for download: https://www.kavo.com/diagnocam-clinical



High resolution, easy solutions.

Triple effective diagnosis, wow effect included

Simultaneously captured, immediately displayed: all images are recorded in Full HD resolution.

Depending on the dental situation and the step of your workflow, you can choose the specific image mode you prefer or combine two or all three of them in one shot. Giving you a clinically relevant overview, like never before.

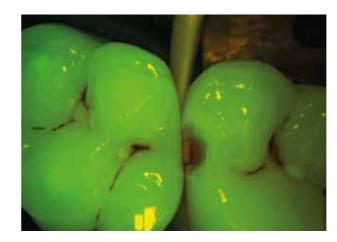
One tip for the whole workflow

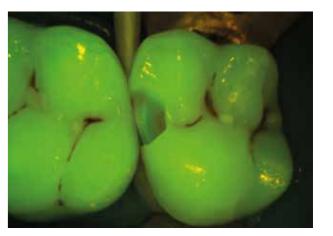
Thanks to its patented design, you can use the tip for the transillumination mode and for all capturing modes. No need to waste time changing the tip.

Fluorescence mode:

The ultimate check at the end of your workflow

This fluorescent light stimulates the metabolic products of (e.g. cariogenic) bacteria on the tooth's hard substances. Emitting different colours, the tooth's hard substance is displayed greenish and metabolic products of cariogenic bacteria are shown reddish. This allows the user to detect caries activity, making it possible to diagnose pathological findings. The mode enables the recording of images in the fluorescence range, in order to diagnose occlusal caries and plaque.





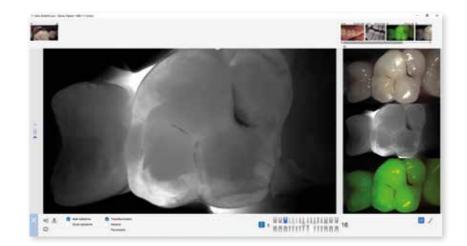
- 72 -

Stand-alone software options

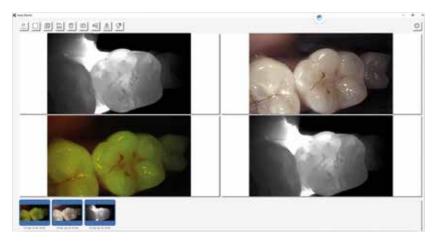
The new software update has additional functions that make it easier to operate your KaVo **DIAGNOcam** and enable operation of the new KaVo **DIAGNOcam Vision Full HD**.

Full integration of the KaVo DIAGNOcam Vision Full HD

The new KaVo DIAGNOcam Vision Full HD, as well as the existing DIAGNOcam, can now be used with all available functions in the DIAGNOcam software. Within the software, you have the option of choosing between a single shot or multiple shots and taking a 3-in-1 shot in less than a second in the intraoral, transillumination and fluorescence modes.



With the new **TWAIN interface**, images from your KaVo camera can be captured quickly and easily and transferred to your software.



Full integration of all KaVo cameras

The DIAGNOcam, the DIAGNOcam Vision Full HD and the ProXam iCam can be used with all available functions via the new TWAIN interface.

Within the software, you have the option of choosing between a single shot or multiple shots and taking a 3-in-1 shot in less than one second in the available intraoral, transillumination and fluorescence modes.

Fast and easy image transfer

Following image capture, images can be viewed, compared, rotated, and flipped. The desired images can then be transferred to your software with one click for use there.

A safe bet for identifying caries.



KaVo DIAGNOdent pen

The laser fluorescence technology means early-stage and hidden caries can be identified too.

- Practices worldwide have used over 15,000 devices with success for over 10 years. The gold standard in fluorescence-based caries detection, with add-on services chargeable accordingly
- · Scientifically proven, easy to use at any time
- In many cases, the gentle measurement enables microinvasive treatment without unnecessary removal of healthy enamel
- Perfect support for simple and reliable diagnosis
 Fissure with measured value of 0-12 or approximal measured value of 0-7: healthy dental substance
- Fissure with measured value of 13–24 or approximal measured value of 8–15: early demineralisation

"An outstanding instrument!" Prof. Dr Adrian Lussi, University of Bern

"When combined with clinical evaluation and an assessment of individual factors relating to caries, the values obtained with the DIAGNOdent pen support early identification of caries and diagnosis. Because the values obtained are highly reproducible, the DIAGNOdent pen is an outstanding instrument for tracking the development of lesions at regular check-ups.!

- Fissure with measured value above 25 or approximal measured value above 16: significant demineralisation
- Easy to use, with acoustic signals and an easy to read display
- $\cdot \ \ \text{Very pleasant for the patient}$
- · Optimum integration into your workflow
- High-value, low-maintenance solution with significant clinical benefits

DIAGNOdent pen 2190: *Mat. no. 1.002.7000*DIAGNOdent pen Display 2191: *Mat. no. 1.004.8400*DIAGNOdent pen sapphire fissure probe: *Mat. no. 1.002.6967*DIAGNOdent pen sapphire proximal probe: *Mat. no. 1.002.6970*DIAGNOdent pen sapphire perio probe: *Mat. no. 1.004.0370*Storage box for DIAGNOdent pen probes: *Mat. no. 1.002.7011*



KaVo ProXam iCam

A small camera with a big reputation.

- Use images with significant depth of field and outstanding colourreproduction to help explain your patients' particular situation to them.
- The easy-to-operate KaVo ERGOcam One gives you the perfect shot whenever you want – a convenient option that really saves you time.
- The shutter release can be triggered by hand or with the foot control on a KaVo treatment unit.
- · Control is via the CONEXIO patient communication software.
- · Cable length 1.30 m

KaVo ProXam iCam 1,3m: *Mat.nr.* 2.023.8000 KaVo ProXam iCam 2,5m: *Mat.nr.* 2.023.8100 Camera Sheaths, 500 St.: *Mat.nr.* 2.023.8002

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Restoration

From primary, secondary and wall preparation through to finishing: KaVo offers you solutions for effective, successful restorations that will keep your patients smiling.

Primary preparation: opening the cavity When it comes to opening the cavity **SONICflex** Secondary preparation: and creating the contour and the As a multifunctional instrucaries excavation necessary depth, KaVo's very ment, the KaVo SONICflex powerful high-speed instruments A green shank, with a suitable KaVo can be used for several steps or turbines are ideal for processing INTRA head, is perfect for precise with the appropriate tips. work performed at high speeds. removal of carious dentine when It is notable for its precise The small head, the ergonomic used at a constant low speed. and minimally invasive head/knee angle and the removal of dental substance. powerful light provide the best view. Finishing: preparation and polishing / For optimum aesthetics and occlusion, the blue shank combined with the specially sealed polishing heads deliver great results in terms of grinding and polishing the surfaces. Wall/margin preparation For optimum preparation of the cavity and the Taking care of best contact between the prepared margins filling and occlusion and the filling material in the further course Thanks to outstanding rotation of treatment, KaVo high-speed instruments performance, KaVo high-speed or KaVo turbines are absolutely perfect, instruments and turbines can shape thanks to their extremely precise rotation. precise fillings and achieve optimum occlusion results.

Restoration with RONDOflex plus 360

Versatile preparations for better results simple, clean and painless.

- · Surface treatment prior to the adhesive technique
- · Minimally invasive cavity preparation
- · Restorative surfaces such as secondary caries



- · Minimally invasive cavity preparation
- · Preparation of adhesive surfaces prior to acid/etching techniques
- · Preparation of adhesive surfaces for braces
- Preparation of fissure seals
- · Opening and widening of fissures
- · Removal of residual adhesive from bridges, crowns, etc. (extraoral)

Product information:

Comes with 2 cannulas (diameter 0.46 mm and 0.6 mm) as well as 2 powder containers and 2 powder bottles (each 75 g), easy to connect to the KaVo MULTIflex system, 12-month warranty Mat. no. 1.002.2179

Accessories:

RONDOflex powder 27 µm to remove less 1,000 g: Mat. no. 1.000. 5957 RONDOflex powder 50 µm to remove more

1,000 g: Mat. no. 1.000.5956

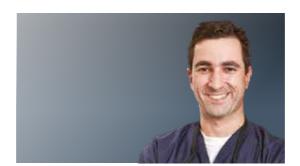
Air abrasion with additional water supply and reduced powder contamination: The following case report demonstrates the use of the RONDOflex plus 360 for enhancing and optimising the adhesion between the restoration and tooth, in a complex clinical situation.

Air abrasion with Al₂O₃ is a method of increasing the retentiveness of the treated surface for subsequent adhesive procedures. The surface is micro-retentive due to its roughening and has a higher-energy surface, ready for bonding.

The technique is especially suited for pretreating dentine, metal or ceramic surfaces before resinbased adhesives and cements are then applied. The bond strength of orthodontic brackets to air-abraded enamel is greater than for acid etching alone. Air abrasion may also increase the bond strength of self-etching dentine bonding systems to dentine.

The pressure-sprayed alumina particles are well contained within the water spray and are not scattered throughout the mouth or clinical working space. The RONDOflex plus 360 provides its stream of alumina particles within the confines of a concurrent water spray.

The RONDOflex plus 360 connects to the same MULTIflex coupling that an air turbine high-speed handpiece connects to, which further enhances the convenience of the device.







5) Final result after adhesion and occlusion check

All around solution for minimal invasive cavity preparation

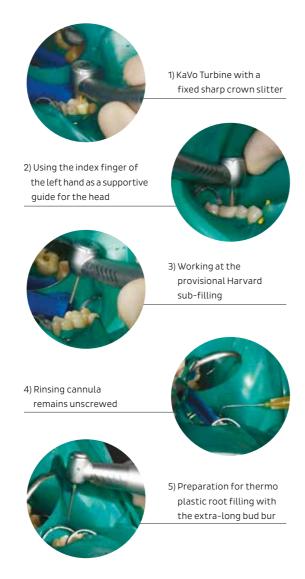
Dr Michael N. Mandikos, prosthodontist, is a visiting specialist to the University of Queensland, Australia, and formerly a Specialist Consultant to the Royal Australian Air Force. He is a reviewer for several international dental journals and a product evaluator for several dental companies. Dr Mandikos regularly presents continuing dental education programmes throughout Australia and South East Asia, and works in a specialist private practice in Brisbane, Australia.

Endodontics

Complex endodontic situations simply managed. Excerpt from case studies of conservative, adhesive treatment of teeth in complex, endodontic situations.

As shown in Figure 1, I prefer the KaVo Turbine with a fixed sharp crown slitter for establishing the coronal access opening. I recommend the following trick to reduce the risk of slipping with the crown slitter or diamond when trepanning a hard zirconium oxide crown: simply use the index finger of the left hand as a supportive guide for the head of the turbine (Fig. 2). When the occlusal core is drilled to the level of the provisional Harvard sub-filling, I exchange the turbine head for an extra-long, round-end diamond (Fig. 3). This removes the lateral overhang of the pulp roof but avoids the floor of the pulp chamber for reasons of perforation prophylaxis. For safety reasons, the rinsing cannula remains unscrewed on the disposable syringe (Fig. 4) so that it does not disengage even at high rinsing pressures.

Rhodium-metallised mouth mirrors are ideal for working at high magnification levels, as they come in two sizes (1.5 cm and 2.5 cm) and they can be unscrewed at the handle to be exchanged when they are scratched. The extra-long bud bur remains far enough away from the pulp chamber floor so that the fine structures that are being worked on can be seen in the mirror (Fig. 5).





Excerpt from: Complex endodontic situations simply managed — from adhesive composite build-up to successful root canal filling Dr Wolfgang Gänsler, dentistry practice. Specialist for endodontics, function and reconstruction, Institute for Advanced Dental Training.

SONICflex, endodontic tips

Important information regarding material numbers:

XX: Tip for SONICflex 2003/2000 (long thread)
XXA: Tip for SONICflex 2008 (short thread)

SONICflex for endodontics

Thanks to its numerous tips, SONICflex is a perfect partner for endodontic purposes. All the tips available, which can be used for a wide range of indications, can be found on pages 48–54.





Endo tip no. 66 | button, large, diamond coating D46 66: 1.000.5825 / 66A: 1.006.1992



Endo tip no. 67 | conical 125°, diamond coating D46 67: 1.000.5822 / 67A: 1.006.1994



Endo tip no. 68 | conical 112°, diamond coating D46 68: 1.000.5823 / 68A: 1.006.1996



Endo tip no. 69 | button, small, diamond coating D46 69: 1.000.5827 / 69A: 1.006.1998



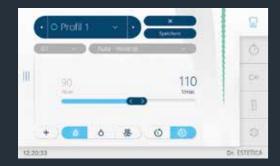
Endo tip no. 70 | conical 117°, diamond coating D25, anterior area not diamond-coated 70: 1.000.5821/70A: 1.006.2000



Endo clean holder no. 96 96: 1.008.5163 / 96A: 1.008.5164

Endo clean needles (6 pcs each) for all SONICflex: 015/ XF white: 1.006.2042 020/ FF yellow: 1.006.2043 025/ MF red: 1.006.2044

Integrated endo function



Endo mode for KaVo treatment units

The integrated endo function means there is no need to buy an expensive endodontic device. With 3 modes for file management, you couldn't be better equipped. All important parameters such as speed increase and torque values can be set, called up and saved via the dentist element.



INTRA head L68 B (1:1)

With push-button chuck, ball bearings, for contra-angle burs with diameter 2.35 mm and root canal instruments, suitable for endo finishing, caries excavation and function of the ESTETICA E50 Life, KaVo uniQa and ESTETICA E70/E80 Vision Mat. no. 1.008.1834



MASTERmatic LUX shank M20 L (1:1)

For cavity and crown preparation, endodontic treatments Mat. no. 1.009.3620

ELECTROmatic Premium/Premium Dual



Workflow at its best

Air-to-electric motor conversion kit (controller, tubing, brushless electric motor and fixtures) for any treatment unit. Easy retrofitting of existing air-driven treatment units. It allows the dentist to upgrade to an electric motor and all its advantages

- · All-in-one device with a special prep and endo mode (torque controls) · Integrated endo file database for easy set-up of endo torque and speed settings with different files
- **NEW since 2021:** With reciprocating file system TF-Adaptive from KERR
- Intuitive handling due to integrated 4.3" TFT colour touchscreen display
- Vivid colour touch display with speed slider for fast set-up.

ELECTROmatic Premium with KL 703 LED motor: Mat. no. 1.012.8545 ELECTROmatic Premium Dual with 2x KL 703 LED motor: Mat. no. 1.012.8547

MASTERmatic and INTRA heads



INTRA Endo head L3 Y

Stroke 0.4 mm, for manual root canal instrument with grip diameter 3.5-4.0 mm Mat. no. 1.008.1823



INTRA Endo LUX head L3

Reciprocating rotation through 60°, for manual root canal instrument with grip diameter 3.5-4.0 mm Mat. no. 1.008.1822



INTRA Endo head L53

Reciprocating rotation through 60°, for manual root canal instrument with contra-angle shaft with diameter 2.35 mm. Mat. no. 1.008.1826



INTRA Endo head L62 (10:1)

For contra-angle burs and Mat. no. 1.008.1830



MASTERmatic LUX

SMARTmatic

reducing shank M29 L (7.4:1) Maximum treatment flexibility with 14 exchangeable heads, forward and reverse running Mat. no. 1.009.3580



ENDO S81 (8:1) Reducing contra-angle for

endodontics, max. drive speed: 40,000 rpm, for files with a shaft diameter 2.35 mm Mat. no. 1.011.6780

Surgery

In surgical procedures, including implant treatment, a sense of safety regarding the surgical device carries a great deal of weight in terms of being able to concentrate on the surgical procedure.

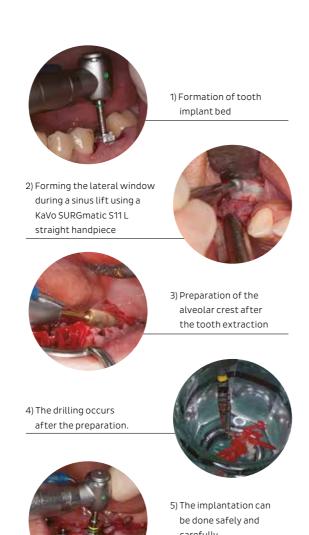
While working with the KaVo EXPERTsurg LUX, I appreciate the compact design of this device and the foot control, which is also very compact. When performing an implant treatment, the dentist has to check the insertion direction from various positions and this means the position of the foot control has to be changed often.

A very helpful feature is that you can move the foot control by hooking it over the top of your foot. This comfort accelerates the procedure and I work with better quality, because I can perform the procedure without distractions.

Therefore I can work in a very concentrated manner.

Moreover, the surgery device of KaVo has an engine with an excellent sense of torque and constant rpm. These two features are very important for achieving high quality in dental surgery and implantology.

It is very important to choose a product that is highly reliable and that also has good usability, such as the KaVo EXPERTsurg LUX. It allows you to concentrate more on the procedure and it helps you to easily achieve good results.





Excerpt from:

Customers voice on KaVo EXPERTsurg LUX

by Dr Ryohei Tonotsuka,

Director of the Tonotsuka Dental Clinic Perio-Implant Center in Tokyo

SONICflex, surgical tips

Important information regarding material numbers:

XX: Tip for SONICflex 2003/2000 (long thread)
XXA: Tip for SONICflex 2008 (short thread)

SONICflex for surgery

Thanks to its numerous tips, SONICflex is a perfect partner for surgery work.

All the tips available, which can be used for a wide range of indications, can be found on pages 48–54.



Surgery portfolio

Surgical devices

MASTERsurg LUX Wireless

The KaVo MASTERsurg LUX Wireless surgical device helps you carry out dental interventions at a whole new level. The underlying philosophy is to help you deliver great performance on a daily basis - thanks to convenient features that make a real difference.

- · Convenient thanks to the intuitive touchscreen display, the freely positionable wireless foot control and the data documentation feature with a graphic real-time display showing torque for quality control purposes
- Data can be saved to an SD card and transferred to patients' files
- · Can be customised with up to 10 programs, each with 10 freely programmable steps
- · Powerful and precise thanks to the S600 LED, one of the world's lightest surgical motors
- Maximum torque: 80 Ncm at the instrument,
- Motor speed range: 0-40,000 rpm



Mat. no. 1.009.1200 (including INTRA LUX S600 LED, sterile hose set, motor cable and instrument tray)

EXPERTsurg LUX

The surgery system that offers high precision and power for greater safety and reliability. Work safely and with great precision thanks to one of the lightest and smallest micromotors and the unique self-calibration feature. Trust the high power levels available, based on 80 Ncm torque at the instrument, and save time thanks to intuitive programming of your work steps and parameters.

- · One-touch self-calibration: you can perform automatic calibration in just a few seconds
- · Intuitive user interface with symbols for instructions and a bright colour display
- Restriction of parameters based on indications
- · Navigation during treatment via the foot control
- \cdot Freely programmable work sequences and image-based representation of all program steps help simplify the work to be done



Mat. no. 1.008.3500 (including INTRA LUX S600 LED, sterile hose set, motor cable and instrument tray)

Motor

Contra-angles





Surgical motor

INTRA LUX S600 LED

- · Light and short motor delivering a high level of power
- Ergonomic operation thanks to 28% lighter and 20% shorter motor delivering the same level of power
- · All-metal surface
- High power across the entire speed range of 0-40,000 rpm
- · Immediate, gentle start
- Motor torque: max. 5.5 Ncm
- Light: 25,000 lux

Mat. no. 1.008.8000



SURGmatic S15 L Pro contra-angle (1:5)

- Surgical speed increasing contra-angle for a wide range of applications
- 1:5 transmission with up to 200.000 rpm for a compelling cutting performance
- CoolHead technology for more patient safety
- · Optimized ball bearings for a long service life
- EXPERTgrip for outstanding grip and easy hygiene
- External coolant connection
- Optimized three-port spray

SURGmatic S15 L Pro (with light) Mat. no. 1.014.4000

Surgery portfolio

All handpieces and contra-angles in the surgery portfolio come with a 12-month warranty.

Handpieces and contra-angles with light



SURGmatic S201 XL Pro | S201 L Pro contra-angles (20:1)

- · S201XL Pro: Hexagon chuck system for a long service life and a max. torque of 80 Ncm
- S201L Pro: Max. torque of 55 Ncm
- Optimized clamping system to avoid jamming tool shanks
- · Removable head, easy to clean
- EXPERTgrip for outstanding grip and easy
- · Small head with internal cooling system as per Kirschner and Meyer

- · External cooling connection
- · Optimized gear teeth in the instrument head and improved ball bearings

S201XL Pro (with hexagon and light): Mat. no. 1.013.7541 S201 L Pro (with light): *Mat. no. 1.013.7540* SURGmatic S201 Pro heads are only compatible with the corresponding SURGmatic S201 Pro shanks.



SURGmatic handpiece S11 L (1:1)

EXPERTgrip, for handpiece burs with a length of 44.5 mm, can also be used with contra-angle burs, external coolant connection Mat. no. 1.009.1010





INTRA LUX handpiece CL10 (1:1) Glass rod light conductor, for handpiece burs with a length of 44.5 mm, external coolant connection

Mat. no. 1.002.0911



INTRA LUX contra-angle (27:1) Glass rod light conductor, can be dismantled

into head and shank, head with internal cooling system (as per Kirschner and Meyer), external coolant connection

CL3-09 | Mat. no. 1.002.3693 Consisting of: INTRA LUX surgical reducing head (3:1) CL3 | Mat. no. 1.001.8993 INTRA LUX surgical shank (9:1) CL09 | Mat. no. 1.001.9258



handpiece 3610N1 (1:1) For handpiece burs with a length of 44.5 mm, external coolant

connection. easy to dismantle Mat. no. 0.524.5600



INTRA surgical handpiece 3610N2 (1:1)

For handpiece burs with a special length of 62.5 mm, external coolant connection, easy to dismantle Mat. no. 0.524.5610



INTRA surgical handpiece 3610N3 (1:1)

For handpiece burs with a special length of 70.0 mm, external coolant connection, easy to dismantle

Mat. no. 0.524.5620



Maintaining the value of KaVo instruments.

More than 50% of handpiece and contra-angle failures are caused by improper cleaning and care. With a few tips from us, you will be able to extend the service life of your KaVo instruments and avoid the most common defects.

1. Chuck system

1.1 Rotating instruments with shafts intact

We always recommend that you use burs that are approved by KaVo, otherwise the instrument may suffer significant damage. Damage includes defects involving the chuck system or bur shaft.

1.2 Comply with dimensions for cutters/grinders.

For manufacturer information concerning the length, diameter, shaft shape and max. speed, please refer to the relevant instructions for use.

1.3 Removal of crowns and bridges/separation of crowns

Bur manufacturers offer crown separators to suit different crown materials. Please comply with the speeds recommended by the bur manufacturer. In the case of straight- or cross-toothed crown separators, these are often lower than for diamond-coated crown separators.

1.4 Never leave the bur in the chuck after a treatment.

The chuck should not bear any load when stored, in order to prolong its service life. Storing instruments with burs in can lead to a risk of injury or infection.

1.5 Close the tensioning ring on the handpiece.

Never start operating a straight handpiece while the chuck is open because:

- The straight handpiece blocks.
- The chuck will block.

1.6 Never press the pushbutton during operation.

Never press or wipe the pushbutton on the turbine or handpiece/ contra-angle while the instrument is rotating because this may cause:

- Excessive wear and tear on the drive/rotor
- · Damage to the push-button/chuck

Never position the push-button close to the patient's cheek. The friction between the push-button and the chuck system generates heat, which may cause burn injuries.











2. Ball bearings

Ball bearings must always be lubricated. Using other than original KaVo oils or applying insufficient oil to ball bearings causes excessive wear and tear and may lead to defects. To prevent any secondary damage, replace ball bearings regularly with original KaVo ball bearings.

4. Damage after dropping

4.1 Avoiding damage caused by dropping instruments

Visually inspect the instrument at the preparation stage for any changes in order to protect both the instrument and the patient.

4.2 Listen for the click when attaching instruments to the coupling.

The instrument must be heard to click into place on the motor/ turbine coupling. Otherwise, it may not be secure and could fall and be damaged.

6. Care

- Automated care with the QUATTROcare PLUS
- Manual care with KaVo Spray
- Chucks must be treated at least once a week with KaVo Spray or in the QUATTROcare PLUS.

3. Surgical instruments

Surgical instruments require special treatment. After each use, clean the instrument immediately under lukewarm running water to remove all external soiling. Wherever possible, dismantle the instrument and clean the inside under lukewarm running water as well.

5. Disinfection

The instrument must never be immersed in a disinfection/ultrasonic bath because:

- The ball bearings might be destroyed
- Other technical defects involving the instrument may occur

Instruments can be manually disinfected. If excessive disinfectant or a non-approved disinfectant is sprayed onto the instrument or the motor/turbine coupling, malfunctions may occur.

7. Storage

Always use an instrument stand to store instruments after cleaning them (Mat. no.: 3.005.5204). Any excess residual oil will be able to drain away. Otherwise, the instrument may become too hot when used again, leading to further damage to ball bearings.

Important note regarding preparation: All information concerning correct preparation can be found in the "Instructions for use" for the relevant instrument.

QUATTROcare PLUS Good care pays off.

Your instruments will seem as good as new, thanks to the care provided by the QUATTROcare PLUS. The approved care process and just the right amount of oil act like a spa treatment for your instruments. They are lubricated perfectly, and ready to perform again.

KaVo QUATTROcare PLUS 2124 A

3x INTRAmatic short and 1x MULTIflex care coupling, with 1 can of QUATTROcare Plus Spray, care couplings for all the usual competitor instruments available as accessories, 12-month warranty

- Lubrication cycle for 4 instruments lasting just 1 min.
- Program-controlled, automated care process
- · Optimum lubrication, thanks to automatic, outletspecific, metered dosing
- Easy handling prevents erroneous care.
- Compressed-air blasting of transmission system and spray channels, using purging function
- · No leakage of residual oil after lubrication has been performed
- Integrated chuck care program
- Basic device complete with four couplings (1x MULTIflex/3x INTRAmatic short)
- · Modern and ergonomic design

Mat. no. 1.008.3805

KaVo QUATTROcare Plus Spray

Care spray for use in KaVo QUATTROcare PLUS lubrication devices, environmentally friendly propellant, each contains 500 ml.

Pack. 2140 P (6 cans):

Country-specific Mat. no. 1.005.4525* or 1.011.5720**



* DE, DA, EN, ES, FI, FR, HR, IT, NL, PL, PT, SV, RU, NO ** CS, EL, ET, HU, LT, LV, RO, SK, SL, TR, ZH, BG

KaVo spray portfolio for manual reprocessing of your dental instruments.



KaVo CLEANspray/DRYspray

CLEANspray:

Ready-to-use solution for the non protein-fixing cleaning (internal and external surfaces) of dental instruments.

DRYspray:

Ready-to-use spray for the drying after cleaning and/or disinfection of the internal surfaces of dental instruments.

Pack. KaVo CLEANspray 2110 P (4 cans):

Mat. no. 1.007.0579

Pack. KaVo DRYspray 2117 P (4 cans):

Mat. no. 1.007.0580

KaVo CLEAN/DRYspray starter set 2116 P:

Mat. no. 1.007.0573

Accessories:

INTRAmatic adapter (1 pc): Mat. no. 1.007.1776 MULTIflex adapter (1 pc): Mat. no. 1.007.1775 COMFORTdrive adapter (1 pc): Mat. no. 1.007.3350 Cleaning adapter manual 3F/MF cannula (1 pc): Mat.no. 3.005.7780

Cleanpac packaging (10 pcs): Mat. no. 0.411.9691



KaVo Spray

Universal lubrication spray for manual lubrication of KaVo instruments, environmentally friendly propellant, each contains 500 ml.

Pack. 2112 A (6 cans):

Country-specific *Mat. no. 0.411.9640** or *1.011.5721***

Accessories:

INTRA spray head (5 pcs): Mat. no. 0.411.9911 MULTIflex spray head (5 pcs): Mat. no. 0.411.9921 COMFORTdrive spray head (1 pc): Mat. no. 1.005.3154 Spray head for NSK turbines (1 pc): Mat. no. 1.005.8436 Spray head for Sirona turbines (1 pc): Mat. no. 1.005.8365 Cleanpac packaging (10 pcs): Mat. no. 0.411.9691

Cheaper — Better probably not maybe

Making sure your KaVo instrument remains a KaVo instrument: KaVo Original Service.

When a KaVo instrument needs a service, second best is just not good enough. It deserves the best — a KaVo Original Factory Repair. Fitting third-party parts can impair functionality (and therefore any treatment provided) as well as invalidate the KaVo warranty. A KaVo Original Factory Repair means only KaVo Original replacement parts are used. So ensure optimum treatment quality, unbeatable reliability and greater longevity at attractive fixed prices from KaVo.



Benefits of KaVo Original replacement parts:

- · Developed, tested and certified by KaVo
- · Necessary to ensure top-quality repairs
- Optimum functionality, longevity and safety for patients and users

You know how important quality is when it comes to the KaVo medical devices you use:

- The use of KaVo Original replacement parts guarantees all components work together as efficiently and safely as possible and gives you the security of a factory warranty and an all-round service by KaVo
- If KaVo medical devices are repaired with third-party replacement parts, this invalidates the KaVo operator licence and the warranty and liability is transferred to the party carrying out the repairs

You know in advance just how much you can save later: factory repairs at attractive fixed prices!



Visit www.kavobox.com and select KaVo Original Factory Repair. If you like, you can order an empty KaVo BOX up front.



Place your KaVo products in the KaVo BOX. UPS® picks up the box automatically the next working day.



3 You get your KaVo products back fast, freshly serviced and repaired.

Available in many countries:

our best service for dentists and dental technicians

- KaVo Original Factory Repair direct from us (no third parties)
- Knowledgeable, skilled and highly trained technicians with many years' experience
- Top quality through the use of KaVo Original replacement parts, tools and testing devices
- · Fast returns to your practice

Our fixed price, your advantages:

- · Attractive fixed prices for almost all imaginable repairs
- Full cost coverage for accepted warranty claims
- Automatic pick-up and delivery of the KaVo BOX
- · 1-year warranty on repairs and replaced parts
- · Save time online at www.kavobox.com



Not genuine means genuinely dangerous! Counterfeit products present a health risk.



With online sales becoming increasingly common, there is a higher risk of people being offered counterfeit dental instruments that are advertised as KaVo Original products but which are actually marked with forged CE markings. Any instruments with counterfeit or non-original replacement parts may prove damaging to health and present a risk to both treatment personnel and patients.

Quality at a glance: how to spot counterfeit instruments!

It can often be difficult to spot counterfeit instruments at first sight because the packaging and labels are only very slightly different. But the technical quality of these fakes differs significantly from the original. Also, counterfeit products violate industrial property rights and the copyright.

Quality comes at a price, but it's fair to say that a fake could prove much more costly in the end!

To prevent potential harm to patients and dentists, we will continue to pursue a hard line against counterfeits. We would also ask you — for your own safety too – to let us know if you notice any instruments being offered which might be counterfeit. Please email us at tm.reporting@kavo.com.

Many thanks!

You can be sure of getting original KaVo quality from approved KaVo dealers. All addresses can be found at www.kavo.com/kavo-dealers-worldwide

KaVo Original

Packaging



Original KaVo tray

Instrument head



Matt, with 4 small notches

Spray ports



Number of spray ports on a ring

Type plate



Type plate with CE markings and correct address

The introduction of a modified product in the market, in which the reasonable suspicion exists to endanger the safety and health of patients or users, is prohibited by MPG §4, Abs.1 No. 1 and therefore requires its own conformity check.

Counterfeit (examples)



Neither key nor tray are from KaVo



Shiny, 2 large notches only



Number of spray ports on 2 rings

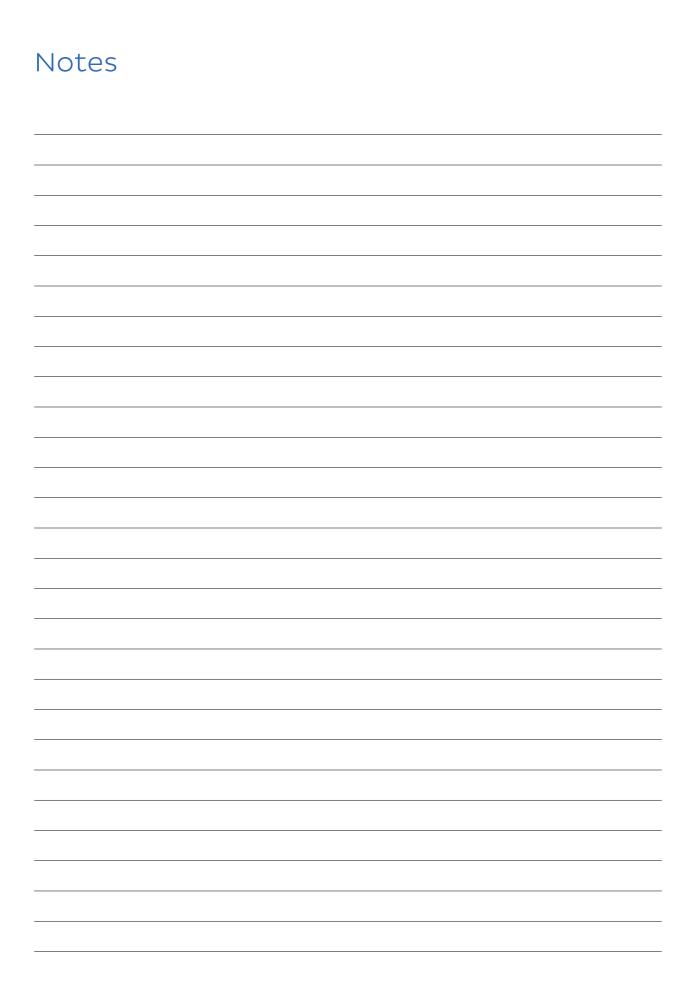


ype plate with no CE markings nd a mistake in the street name 3i8marckring)

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Notes



Dental Excellence in every area



Practice equipment

KaVo treatment units and lights, dental chairs, patient communication systems 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, sensors and imaging plates, panoramic and extraoral X-rays, including combined with DVT, as well as dedicated DVT equipment for any indication in dentistry.

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