KaVo Instruments
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 over 2,200 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.

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

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 MULITflex coupling sets a worldwide standard and later becomes the MULITflex LUX system with integrated light.

1984
SONICflex 2000, the start of a unique air scaling success story that continues to this day

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

1992
1977-1980
The MULITflex coupling sets a worldwide standard and later becomes the MULITflex LUX system with integrated light.

2003
INTRA LUX KL 701 motor, the world’s smallest dental micromotor of its time

2005
INTRAsurg 1000/air, programmable surgical device with a rotating and oscillating action

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

2010
Introduction of MULTI LED™ for perfect lighting and fast, economical switching to LED

2013
MASTERtorque M9000 L with Direct Stop Technology and improved performance

2014
MASTERsurg surgical unit with one-touch calibration and instrument checking

2018
PROPHYflex 4, the first powder jet device based on the mixing chamber principle for targeted work

2019
KaVo Kerr elements e-motion, the innovative Endo-Motor with improved Adaptive Motion feature
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.

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.

6 MILL.
instruments sold worldwide
are proof of Dental Excellence.

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.

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95% of all parts for KaVo instruments are produced in Biberach.

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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.

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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.

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400 highly qualified employees ensure the instruments produced deliver the quality associated with KaVo.

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100% quality, from the raw materials to the finished instrument. All from a single source.

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98% re-purchase rate for instruments shows just how satisfied our customers are.

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95%

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.

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98%

Assembly of the components of a KaVo instrument.
Enthusiasm is inspired whenever technology and intuition come together in one.

Dr. Klaus Boettcher
Dentist, Hameln
MASTER series

Enjoy maximum power with KaVo’s most innovative comfort.
- Best treatment quality
- Maximum treatment comfort
- Highest patient satisfaction

EXPERT series

Rely on advanced KaVo performance.
- Maximum longevity
- Efficient operations
- Reliable features
MASTER series

Enjoy maximum power with KaVo’s most innovative comfort.
**Handpieces and contra-angles**

**Benefits at a glance**

- **Optimum access**
  - thanks to the patented 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**
Handpieces and contra-angles

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

**MASTERmatic LUX**

**speed-increasing contra-angle M25 L (1:5)**
Our best high-speed contra-angle thanks to a reduced head size (H: 13.5 mm; diameter 10.3 mm), patented head/knee angle combination, carbide guide bush, triple-gear technology and replaceable spray filter, 3-port spray, push-button chuck, ceramic ball bearings, low volume (55 dB(A))
Mat. no. 1.009.3630

**MASTERmatic LUX**

**speed-increasing contra-angle M25 L (1:5)**
Min. head (H: 13.5 mm, diameter 10.3 mm) for short-shaft burs, triple-gear technology, 1-port spray, with push-button chuck, ceramic ball bearings, head 43% smaller than for GENTLEpower 25 LP, perfect for hand to reach areas and ideal for treating children and the elderly, low volume (55 dB(A))
Mat. no. 1.009.3640

**MASTERmatic LUX**

**reducing shank M25 L (2.7:1)**
Glass rod light conductor with up to 25,000 lux, for endodontic applications, replaceable spray filter, maximum treatment flexibility with 14 exchangeable heads
Mat. no. 1.009.3620

**MASTERmatic LUX**

**shank M20 L (1:1)**
For cavity and crown preparation, finishing, caries excavation and endodontic treatments using KaVo treatment units, 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

**COMFORTdrive**

**contra-angle 200 XD**
High-speed contra-angle, very light and versatile, integrated brushless motor, glass rod light conductor, ceramic ball bearings, spray filter replaceable by user, 3-port spray, only suitable for direct connection to KaVo COMFORTbase™, max. drive speed 200,000 rpm
Mat. no. 7.000.3530

**Comparison of head volumes**

<table>
<thead>
<tr>
<th>Instrument</th>
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<tr>
<td>KaVo 25 LP</td>
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<td>KaVo M25 L</td>
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Comparison with KaVo GENTLEpower 25 LP, the world’s favourite high-speed instrument.

**MASTERmatic LUX**

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

**Comparison with KaVo GENTLEpower 25 LP, the world’s favourite high-speed instrument.**

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Comparison with KaVo GENTLEpower 25 LP, the world’s favourite high-speed instrument.
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.

### Standard preparation

<table>
<thead>
<tr>
<th>Head</th>
<th>Description</th>
<th>Speed</th>
<th>Material No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M20 L 1:1</td>
<td>With push-button chuck, for contra-angle burs with diameter 2.35 mm, max. operating speed 40,000 rpm</td>
<td>40,000 rpm</td>
<td>1.008.1833</td>
</tr>
<tr>
<td>M20 L 3:1</td>
<td>With push-button chuck, for contra-angle burs with diameter 2.35 mm, max. operating speed 40,000 rpm</td>
<td>40,000 rpm</td>
<td>1.008.1834</td>
</tr>
</tbody>
</table>

### Prophylaxis

<table>
<thead>
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<th>Head</th>
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<th>Speed</th>
<th>Material No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>L31 (2:1)</td>
<td>With thread and knob, for screw-type and snap-on polishing attachments, and multiple seals to prevent ingress of polishing paste</td>
<td>7,500 rpm</td>
<td>1.008.1824</td>
</tr>
</tbody>
</table>

### Endodontics

<table>
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</thead>
<tbody>
<tr>
<td>L53</td>
<td>With push-button chuck, for root canal instruments with contra-angle shaft with diameter 2.35 mm, reciprocating rotation through 60°</td>
<td>Max. drive speed 3,000 rpm, suitable for endo function of the ESTETICA E50 Life and ESTETICA E70/E80 Vision in combination with MASTERmatic M20 L</td>
<td>1.008.1826</td>
</tr>
</tbody>
</table>

### Surgery

<table>
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<tr>
<td>L52 (1:1)</td>
<td>With round bur (size 2), and U-inverted cone bur (size 0), for microsurgery</td>
<td>Max. drive speed 20,000 rpm</td>
<td>1.008.1835</td>
</tr>
</tbody>
</table>
**Turbines**

**Benefits at a glance**

- **Optimum access** thanks to patented 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 30 N for secure retention of the bur
- **Small head size** Overall height 13.1 mm (standard version) or 12.1 mm (mini version) for good access and overview
- **Thermo-disinfecatable** and sterilisable up to 135 °C
- **Direct Stop Technology** Bur stops in less than one second for greater safety during treatment
- **Plasmatec coating** for a perfect grip and excellent hygiene
- **Non-return feature** effectively prevents contaminated debris and aerosol getting inside the housing around the head.
- **Optimum view** thanks to offset light and spray outlets
- **Low volume** (only 57 dB(A)) to eliminate unpleasant noises for patients and treatment personnel
- **Maximum power** of up to 23 watts for more efficient work
- **High-tech FG chuck** with carbide guide bush for optimum longevity

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**Maximum power**

**Minimal head size**

**MASTERtorque LUX**
- Maximum power up to 23 watts*, up to 57 dB(A), head height 13.1 mm, 4-port spray
- M9000 L: Mat. no. 1.007.7900
- 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, up to 59 dB(A), for standard and miniature burs, 19 watts of power*, 3-port spray
- M8700 L: Mat. no. 3.001.0000

**Third-party couplings**

**MASTERtorque LUX**
- Like M9000 L, fits Sirona click&go coupling**
- M9000 L S: Mat. no. 1.008.5400

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

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* Power depends on drive pressure and other parameters.
** Registered trademark of Sirona
EXPERT series

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
- 18-month warranty
- 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

Made in Germany
Handpieces and contra-angles

1. Maximum longevity
2. Efficient operations
3. Reliable features
**Turbines**

**Benefits at a glance**

- **Optimum access** thanks to patented 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
- **18-month warranty**
- **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)) 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
- **Thermo-disinfectable and sterilisable up to 135 °C**
- **Maximum power** of up to 18 watts for efficient work
- **High-tech FG chuck with carbide guide bush** for optimum longevity
- **Third-party couplings**
  - EXPERTtorque LUX E680 L
    - Up to 18 watts of power*, glass rod light conductor, 4-port spray, head height 13.6 mm, up to 62 dB(A)
    - Mat. no. 1.006.8700
  - EXPERTtorque Mini LUX E677 L
    - Small head height 12.2 mm, for standard and miniature burs, 5-port spray, glass rod light conductor, 15 watts of power*, up to 65 dB(A)
    - Mat. no. 1.007.3600
  - EXPERTtorque E680 C (without light)
    - Up to 18 watts of power*, 6-port spray, head height 13.6 mm, up to 62 dB(A)
    - Mat. no. 1.006.9000
  - EXPERTtorque LUX E680 LS**
    - Mat. no. 1.006.4600
  - EXPERTtorque LUX E680 LN**
    - Mat. no. 1.006.4700
  - EXPERTtorque Mini LUX E677 LS**
    - Mat. no. 1.006.0100

* Power depends on drive pressure and other parameters.
** Registered trademark of Sirona or NSK.
Instruments and more

The easy handling enables me to treat patients more efficiently.

Dr Indira Rangel
Dentist, Valencia
Motors

Electric motors

**KaVo Kerr elements e-motion**

Your ‘safe’ bet for better endodontics!
The new KaVo Kerr elements e-motion system combines efficiency and safety: the improved Adaptive Motion feature offers greater cutting power and the new torque limiting feature minimises the risk of files becoming deformed or breaking.

KaVo Kerr elements e-motion was fully developed and manufactured in Germany. The accompanying stainless steel handpiece is made by KaVo. The device, thanks to its user-friendly colour touchscreen interface, is easy to operate – via 5 individually adjustable presettings, each with up to 10 files.

- File system with more than 100 preset files
- New files can be added with name, size, speed and torque and set up individually
- 4 attachment options for handpiece holders

**Motors and couplings**
### Couplings

#### Spray adjustment
- **With light**
  - MULTIflex LED coupling 465 LED
    - 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
  - MULTIflex coupling 457
    - With 4-hole standard connection, spray adjustment ring with locking positions, anti-retraction valve to prevent intrusion of spray water
    - Mat. no. 0.553.1210
- **Without light**
  - MULTIflex LED 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. 0.553.1530
  - MULTIflex coupling 457
    - With 4-hole standard connection, spray adjustment ring with locking positions, anti-retraction valve to prevent intrusion of spray water
    - Mat. no. 0.553.1210

#### Special connections
- **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
  - MULTIflex coupling 453 N
    - With 3-hole standard connection (Borden), anti-retraction valve to prevent intrusion of spray water
    - Mat. no. 0.553.1610
  - MULTIflex coupling 454 N
    - With 2-hole standard connection (Borden), anti-retraction valve to prevent intrusion of spray water
    - Mat. no. 0.553.1620

#### Switching to LED
- **With light**
  - MULTIflex LED coupling 465 LED
    - 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. 0.553.1072
  - MULTIflex coupling 457
    - With 4-hole standard connection, spray adjustment ring with locking positions, anti-retraction valve to prevent intrusion of spray water
    - Mat. no. 0.553.1210
- **Without light**
  - MULTIflex LED 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. 0.553.1530
  - MULTIflex coupling 457
    - With 4-hole standard connection, spray adjustment ring with locking positions, anti-retraction valve to prevent intrusion of spray water
    - Mat. no. 0.553.1210

#### Without spray adjustment
- **With light**
  - MULTIflex LED coupling 465 LED
    - 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
  - MULTIflex coupling 457
    - With 4-hole standard connection, spray adjustment ring with locking positions, anti-retraction valve to prevent intrusion of spray water
    - Mat. no. 0.553.1210
- **Without light**
  - MULTIflex LED 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. 0.553.1530
  - MULTIflex coupling 457
    - With 4-hole standard connection, spray adjustment ring with locking positions, anti-retraction valve to prevent intrusion of spray water
    - Mat. no. 0.553.1210

#### All MULTIflex couplings come with a 12-month warranty and fit all of the following:
- Turbines
- SONICflex
- CORONAflex
- PROPHYflex 4
- RONDOflex plus 360
- and many more
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 with just one turn, 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
Mat. no. 0.571.9020

SONICflex 2003
SONICflex handpiece 2003, with tips nos. 5/6/7, without light
Mat. no. 0.571.9034
SONICflex handpiece 2003, with light
Mat. no. 1.007.0540

SONICflex quick 2008
SONICflex quick set 2008 L*, with tips no. 5A/6A/7A, with light
Mat. no. 1.007.9004
SONICflex quick handpiece 2008 L*, with light
Mat. no. 7.005.9130
SONICflex quick handpiece 2008 L*, with tips nos. 5A/6A/7A, with light
Mat. no. 7.007.9130
SONICflex quick handpiece 2008 L*, with light
Mat. no. 7.007.9134
SONICflex quick handpiece 2008, without light
Mat. no. 1.005.9109
SONICflex quick handpiece 2008, without light
Mat. no. 1.006.9109
SONICflex quick handpiece 2008 5*, with light
Mat. no. 7.007.9157
SONICflex quick handpiece 2008 5*, with light
Mat. no. 7.007.9157
* FFa Sirona click&go coupling — a registered trademark of Sirona

Gentle pocket cleaning up to 9 mm deep:

For anterior teeth area, smooth surfaces:
Paro tip no. 60 | long, straight tip, crowned surface
60: 0.571.9492 / 60A: 1.008.1934
For premolars, molars:
Paro tip no. 61 | angled tip, left, crowned surface
61: 0.571.9492 / 61A: 1.008.1935
Paro tip no. 62 | angled tip, right, rounded surface
62: 0.571.9482 / 62A: 1.008.1938
Paro tip-set no. 60 / 61 / 62
Set: 0.571.0971 / Set A: 1.008.2020

For difficult to reach furcations, enables access to approximal furcations, even in cases of undermined lines of denition:

Scalers and tips

Removal of subgingival plaque and calculus around implants:

Implant tip-set wedge-shaped tips, single-started 6° thread
Set: 1.005.8975 / Set A: 1.008.2027
Implant refill (10 pcs): 7.003.8588

Removal of supragingival and subgingival calculus:

Scaler tips nos. 3 | universal
6: 0.571.5771 / 6A: 1.005.8581
Scaler tips nos. 6 | sickle
5A: 0.571.3961 / 6A: 1.005.8580
Scaler tips no. 7 | peri
7: 0.571.5781 / 7A: 1.005.8931

SONICflex tips

Prophylaxis
Removal of large areas of calculus:

Scaler tips nos. 3 | universal
6: 0.571.5771 / 6A: 1.005.8581
Scaler tips nos. 6 | sickle
5A: 0.571.3961 / 6A: 1.005.8580
Scaler tips no. 7 | peri
7: 0.571.5781 / 7A: 1.005.8931

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

Clean tips nos. 48
68: 0.571.0427 / 48A: 1.008.1982
Clean brush tips 15 pcs: 0.571.0402
Clean brush tips 20 pcs: 0.571.0412
Clean brush tips 45 pcs: 0.571.0422
Clean brush tips 45 pcs: 0.571.0432
Clean brush tips 45 pcs: 0.571.0442
Brush set: 0.571.0020 / A: 1.008.2020

Periodontology
Removal of supragingival and subgingival plaque:

Sonographic handpiece 2008
Sonographic handpiece 2008 5*, with light
Mat. no. 1.007.0540

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

For ultra-conservative, sono-abrasive caries excavation, fine:
Layer-by-layer removal of most carious tissue:

Sonographic handpiece 2008
Sonographic handpiece 2008 5*, with light
Mat. no. 1.007.0540

Important information regarding material numbers:
XX: tip for SONICflex 2003/2000 (long thread)
XXA: tip for SONICflex 2008 (short thread)

For minimally invasive preparation of fissures, no pain when opening fissures:
Tip for SONICflex 2008 (short thread)
XXA:
Tip for SONICflex 2003/2000 (long thread)
XX:

Scalers and tips

Removal of supragingival and subgingival plaque:

Implant tip-set wedge-shaped tips, single-started 6° thread
Set: 1.005.8975 / Set A: 1.008.2027
Implant refill (10 pcs): 7.003.8588
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 60°, cervical 70°, diamond coating D46)
  49: 0.571.7212 / 49A: 1.006.1982
- Prep gold tip no. 50 (distal, tips with defined bevel angles lateral 60°, cervical 70°, diamond coating D46)
  50: 0.571.7222 / 50A: 1.006.1984

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

- Prep cement tip no. 51 (mesial, tips with defined bevel angles lateral 60°, cervical 70°, diamond coating D46)
  51: 0.571.7202 / 51A: 1.006.1985
- Prep cement tip no. 53 (distal, tips with defined bevel angles lateral 60°, cervical 70°, diamond coating D46)
  53: 0.571.7203 / 53A: 1.006.1986

Separation prior to crown preparation, rounding of sharp transitions with the approximal border during cavity preparation, anatomical shaping of approximal surfaces of composite fillings, approximal enamel reduction or relation to orthodontics:

- Stripping tip no. 73 (flat, mesial diamond coating D25)
  73: 1.071.2992 / 73A: 1.071.2994
- Stripping tip no. 74 (flat, distal diamond coating D25)
  74: 1.071.2992 / 74A: 1.071.2996
- Shaping tip no. 75 (convex, mesial diamond coating D25)
  75: 1.071.2999 / 75A: 1.071.2996
- Shaping tip no. 79 (convex, distal diamond coating D25)
  79: 1.071.2999 / 79A: 1.071.3000

Gentle placement of inlays:

- Top of CPM no. 72 with crowned plastic cup
  72: 0.571.4377 / 72A: 1.070.2021
- 12H attachment 0.571.7432

Crown preparation, ideal combination of rotating crown preparation instruments with conically shaped tips of similar design:

- Chamber preparation:
  Crown prep tip no. 88 (radius, diamond coating D45)
  88: 1.006.6931 / 88A: 1.006.684
- Shoulder preparation:
  Crown prep tip no. 88 (flat, diamond coating D45)
  88: 1.006.6385 / 88A: 1.006.6366

Root tip resection
Searching for locating root canal. Simplifies work associated with retrograde cavity preparation:

- Retio tip no. 56 (extremely narrow, cylindrical tip, right, diamond coating D45)
  56: 0.571.7222 / 56A: 1.006.2040
- Retio tip no. 57 (extremely narrow, cylindrical tip, right, diamond coating D45)
  57: 0.571.7332 / 57A: 1.006.2041

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

- Retio tip no. 51 (left, small cylinder, diamond coating D45)
  51: 0.571.7214 / 51A: 1.006.2043
- Retio tip no. 52 (right, small cylinder, diamond coating D45)
  52: 0.571.7216 / 52A: 1.006.2044

Endodontics
Shaping of access cavity, removal of pretuberculations:

- Endo tip no. 68 (button, large, diamond coating D45)

Widening of larger canals:

- Endo tip no. 67 (conical 35°, diamond coating D45)
- Endo tip no. 68 (conical 12°, diamond coating D45)
  68: 1.006.5623 / 68A: 1.006.1906

Removal of residue from root canal fillings:

- Endo tip no. 69 (button, small, diamond coating D45)
  69: 1.006.5327 / 69A: 1.006.1928

Surgery
Surgical crown-extension without flap creation to restore biological width, for cases involving asymmetrical arcades, gummy smile or loss of biologic width:

- Crown extension tip 020 no. 92 (small, straight, exterior diamond-coated D45)
  92: 1.071.3021 / 92A: 1.071.3022
- Crown extension tip 020 no. 91 (small, angled, exterior diamond-coated D45)
  91: 1.071.3023 / 91A: 1.071.3024
- Crown extension tip 030 no. 93 (large, straight, exterior diamond-coated D45)
  93: 1.071.3020 / 93A: 1.071.3021
- Crown extension tip 030 no. 94 (large, angled, exterior diamond-coated D45)
  94: 1.071.3019 / 94A: 1.071.3020
- Crown extension tip 030 no. 95 (large, angled, exterior diamond-coated D45)
  95: 1.071.3017 / 95A: 1.071.3021

Sectioning of Sharpey’s fibres, extension of alveoli, removal of root residues, gentle extraction before implantation, bone splitting:

- Bone tips no. 80 (square, cutting 80: 1.004.3875 / 80A: 1.006.2006

Preparation of bone window for sinus lift. With very compact bone, where applicable, rotation and sectioning of cortical bone plus removal of remaining bone using the diamond-coated tip:

- Bone tips no. 81 (ball, large, diamond coating D45)
  81: 1.004.3875 / 81A: 1.006.2008

Removal of bone blocks, osteotomies (distraction, bone splitting). With extremely thick cortical bone, where applicable, rotation and removal of bone using the diamond-coated tip:

- Bone tip no. 83 (large sagittal)
- Bone tip no. 84 (saw axial)
  84: 1.004.3879 / 84A: 1.006.2014

Disc-shaped design for safe repositioning of the Schneider membrane during a sinus lift:

- Bone tip no. 86 (elephant foot)
  86: 1.006.1961 / 86A: 1.007.1924

Easy and quick harvesting of large quantities of bone, especially useful for bone augmentation:

- Bone tip no. 88 (bone harvester)
  88: 1.006.0119 / 88A: 1.007.1925

For narrow incisions when cutting ligaments:

- Bone tip no. 87 (saw axial, replaceable saw blades, saw blade thickness 0.15 mm)
  87: 1.006.1960 / 87A: 1.007.1927
  Saw blades (green) 1.006.4323

Preparation of bone window for sinus lift with minimal bone defects:

- Endo clean set I 105° or 75° angle, needles 015, 020 and 025 each:
  015 red:
  020 yellow:
  025 blue:

- Scalers and tips
PiezoLED
The high-end ultrasonic scaler from KaVo

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

Prophylaxis
PEIZO Scaler tip 201
For removal of supra- and sub-gingival calculus in all quadrants
Mat. no. 1.007.4024

PEIZO Scaler tip 202
For removal of supra- and sub-gingival calculus in all quadrants up to a pocket depth of 4 mm
Mat. no. 1.007.4026

PEIZO Scaler tip 203
For removal of subgingival deposits on root surfaces. Also suitable for deep periodontal pockets and periodontal treatments/check-ups
Mat. no. 1.007.4028

Periodontology
PEIZO Paro tip 210
Diamond-coated tip with 75 μm grain for polishing surfaces after cleaning and forming, for thorough root cleaning in direct line of sight and extension of furcation roofs
Mat. no. 1.007.4039

PEIZO Paro tip 211
Diamond-coated tip with 70 μm grain for thorough root cleaning in direct line of sight, smoothing restoration projections, extension of furcation roofs
Mat. no. 1.007.4040

Preparation
PEIZO Prep tip 226
Diamond-coated preparatory tip with spherical design for opening up small occlusal and buccal defects
Mat. no. 1.007.4041

PEIZO Prep tip 227
Partially diamond-coated preparatory tip with spherical design for chamfering and finishing approximal mesial cavity edges
Mat. no. 1.007.4042

PEIZO Prep tip 228
Partially diamond-coated preparatory tip with spherical design for chamfering and finishing approximal distal cavity edges
Mat. no. 1.007.4043

Endodontics
PEIZO Endo tip 220
Conical tip with diamond coating (70 μm) for easy location of root canals and removal of calcifications from the coronal third of the root system
Mat. no. 1.007.4040

PEIZO Endo tip 221
Fine cylindrical tip with diamond coating (10 μm) for removing steps and other obstructions
Mat. no. 1.007.4047

PEIZO Endo tip 222
File holder at 120° for flexible use of PEIZO Endo files. holder for 5 different stainless steel files for preparation, cleaning and disinfection of the root canal system (ISO 15, 20, 25, 30, 35)
Mat. no. 1.007.4044

PEIZO Endo tip file set: 1.007.4071

Implant cleaning
PEIZO Implant tip set
For removing plaque and calculus from implant surfaces and metal or ceramic restorations, metal-free tip
Mat. no. 1.007.4028

PEIZO Implant refill tip set: 1.007.4074

CEM
PEIZO CEM tip 225
Diamond-coated tip with 15 μm grain for cementing ceramic inlays, onlays and crowns with highly thixotropic, dual-cure composite cements
Mat. no. 1.007.4027

CEM attachment: 1.007.4015

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 thanks to various tips
Mat. no. 1.007.3995
Laboratory Handpieces for masterpieces

K-ERGOgrip 4944
High-power laboratory drive offering convenient solutions based on ergonomic and light design
- Short, ergonomic handle with 2 grip sleeves
- 7 Ncm torque
- Up to 50,000 rpm in 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
- 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

Order numbers for combined packages

<table>
<thead>
<tr>
<th>K-Control™ TLC Knee</th>
<th>K-Control TLC Foot</th>
<th>K-Control TLC Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>K-ERGOgrip Power and ergonomics</td>
<td>Mat. no. 1.005.4206</td>
<td>Mat. no. 1.005.4207</td>
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<tr>
<td>K-POWERgrip Power</td>
<td>Mat. no. 1.007.2082</td>
<td>Mat. no. 1.007.2084</td>
</tr>
<tr>
<td>K5 plus Ergonomics</td>
<td>Mat. no. 1.009.4244</td>
<td>Mat. no. 1.009.4245</td>
</tr>
</tbody>
</table>

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.

Knee control
Foot control
Table control
ARCUSdigma
Instrument-based functional diagnostics have never been so easy
• The KaVo ARCUSdigma records mandibular movements with speed and precision. The system also supports faster, economical and practical application of specific and therapeutically relevant methods associated with instrument-based functional analysis.
• Temporomandibular joint movements can be recorded with real precision thanks to 4 sensors and 8 microphones.
• No other face bows need to be attached when using the KaVo PROTARevo Digma articulator for model assembly purposes involving the maxilla.
• Perfect hygiene can be achieved by wiping smooth surfaces with disinfectant in the usual way. No PC keyboard required for operation.
ARCUSdigma USB: Mat. no. 1.005.2301
ARCUSdigma SD: Mat. no. 1.005.2300

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 bite.
• The earpieces are designed to allow unrestricted communication with the patient.
ARCUS: Mat. no. 0.622.5000
ARCUSevo: Mat. no. 1.005.0900

The ARCUSdigma 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.
Technology doesn't just impress patients. It engages and inspires my entire team.

Dr Panthea Nourian-von Vultée
Dentist, Oral Surgery, Wiesbaden
The entire prophylaxis workflow from a single source: KaVo Kerr World of Smile

From patient preparation to scaling, air polishing, polishing and even diagnostics, KaVo Kerr’s perfect solutions are designed to make your entire prophylaxis treatment cycle easy and efficient. So there’s a lot for you and your patients to smile about!

Kerr OptiView™ for patient preparation
The Kerr OptiView’s flexible 3D design supports fast and comfortable placement and removal. Uniform perioral retraction provides an unobstructed view and free access to the oral cavity. This allows quicker procedures with fewer interruptions, even during longer treatments, and is comfortable for both patients and practitioners. (More on pages 38–41)

The KaVo SONICflex for efficient scaling
Regardless of which tip you choose for plaque removal or subgingival cleaning of dental pockets or implants, the KaVo SONICflex offers simple and quick tip replacement, comfortable and tissue-sparing treatment as well as reduced heat build-up and gentle oscillation for any indication. (More on pages 38–41)

The KaVo tooth cleaning system
The PROPHYflex 4, KaVo’s new ergonomic and easily adjustable superior cleaning system. Use it with KaVo PROPHYpearls or PROPHYflex Powder and, for subgingival use, with the PROPHYflex Perio Kit and Perio Powder. Give yourself and your patients a reason to beam with happiness, whatever the application. (More on pages 53–55)

KaVo Kerr solutions for tooth polishing
Four KaVo SMARTmatic contra-angles for prophylaxis combined with Kerr Pro-Cup™ for splash-free application of Kerr Cleanic™ Prophy-Paste from practical Prophy Clips: the symbiosis of KaVo and Kerr creates perfect polishing. (More on page 56–57)

The KaVo DIAGNOcam for caries diagnosis
Using the KaVo DIAGNOcam for early caries detection, you can easily take highly precise images by transilluminating the teeth without any need for X-rays. These excellent images increase the acceptance of your treatment plan. (More on pages 58–60)
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
Sticks (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
Bottles (4 pcs per 250 g)
Neutral: Mat. no. 1.010.1798
PiezoLED, prophylaxis tips
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 42–43.

KaVo PROPHYflex Powder
Polishing can be so quick.
• Indication: highly effective elimination of discolouration, plaque 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**

Important information regarding material numbers:
XX: Tip for SONICflex 2003/2000 (long thread)
XXA: Tip for SONICflex 2008 (short thread)
The new KaVo PROPHYflex 4. Perfect ergonomics has never been so flexible ...

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

Exceptional cleaning and enhanced visibility
Less powder mist thanks to the highly precise powder jet. The narrow shape of the cannula provides good visibility during supragingival cleaning.

Feel good all-round
Work comfortably even in difficult-to-reach places, thanks to the 360°-rotatable grip sleeve.

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 discoloration with more or less powder and how long the handpiece should be.

The precise little cannula for pockets
Optional Peno 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.

Stay relaxed, work with ease
A super-light, perfectly balanced handpiece with individually adjustable lengths for comfortable handling and stress-free treatment.

Safety 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. 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.

Wave
Mat. no. 3.002.8000
Mat. no. 3.004.5900*

Lime
Mat. no. 3.002.8020
Mat. no. 3.004.5910*

Flamingo
Mat. no. 3.002.8000
Mat. no. 3.004.5900*

*K fits Sirona connection.
**PROPHYpearls abrasion compared to a competitor’s air polishing device using calcium carbonate. Shown on SonicFill™ composite.

KaVo PROPHYflex 4
Mat. no. 3.002.8000
Mat. no. 3.004.5900*

Competitor
Mat. no. 3.002.8020
Mat. no. 3.004.5910*
Handpieces and contra-angles for prophylaxis

The smart approach to Dental Excellence. With a 70° oscillating rotation direction for low heat development on the tooth surface, the best hold of the polishing paste on the polishing cup and thus no raising of saliva on the polisher — for a clean, effective polish even in the interdental spaces.

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, max. drive speed 20,000 rpm, sealing to prevent intrusion of paste
Mat. no. 1.011.6810

SMARTmatic PROPHY S19
prophylaxis handpiece (8:1)
For disposable prophylaxis heads, Borst shaft stamping system, max. drive speed 20,000 rpm
Mat. no. 1.011.6760

SMARTmatic PROPHY S33
prophylaxis contra-angle (8:1)
70° oscillating rotation direction, holder for Snap-on polishing applications, max. drive speed 20,000 rpm, sealing to prevent intrusion of paste
Mat. no. 1.011.6800

SMARTmatic PROPHY S33 prophy angles (8:1)
70° oscillating rotation direction, usable with polishing and endodontic files with shaft diameter 2.35 mm, max. drive speed 20,000 rpm
Mat. no. 1.011.6830

SMARTmatic PROPHY S31 prophy angles 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, max. drive speed 20,000 rpm, sealing to prevent intrusion of paste
Mat. no. 1.011.6810

SMARTmatic PROPHY S19 prophy angles handpiece (8:1)
For disposable prophylaxis heads, Borst shaft stamping system, max. drive speed 20,000 rpm
Mat. no. 1.011.6760

SMARTmatic PROPHY S33 prophy angles contra-angle (8:1)
70° oscillating rotation direction, holder for Snap-on polishing applications, max. drive speed 20,000 rpm, sealing to prevent intrusion of paste
Mat. no. 1.011.6800

SMARTmatic PROPHY S33 prophy angles and endo contra-angle (8:1)
70° oscillating rotation direction, usable with polishing and endodontic files with shaft diameter 2.35 mm, max. drive speed 20,000 rpm
Mat. no. 1.011.6830

The KaVo Kerr Prophy Boxes:
three ways to save

Prophy Box SMARTmatic
(Orderable only via Kerr)
1x KaVo SMARTmatic PROPHY Instrument
Mat. no. 531, 533, 535 or 579
2x Kerr Prophy Clips
2x Kerr Diamond Tube Fluoride 100 g
1x Kerr OptiView Standard Kit (2 pcs)
Mat. no. 7501
2x Kerr S31 plus 10x Prophy Cup Snap-on
Mat. no. 7502
2x Kerr S33 plus 10x Prophy Cup Screw-type
Mat. no. 7503
2x Kerr S53 plus 14x Prophy Angles standard cup
Mat. no. 7504

Prophy Box PROPHYflex 4
1x KaVo PROPHYflex 4
(Wave, Lime or Flamingo)
1x Kerr OptiView Standard Kit (2 pcs)
1x Kerr OptiView Small Kit (2 pcs)
1x KaVo PROPHYpearls Neutral (BD sticks)
1x KaVo PROPHYpearls Selection (BD sticks)
Prophy Box PROPHYflex 4 Wave:
Mat. no. 1.013.5078
Prophy Box PROPHYflex 4 Lime:
Mat. no. 1.013.5079
Prophy Box PROPHYflex 4 Flamingo:
Mat. no. 1.013.5080

Prophy Box Perio
for PROPHYflex 4
Suitable for the KaVo PROPHYflex 4. Everything for the subgingival treatment in one single package
1x KaVo PROPHYflex 4 Perio KIt
1x PROPHYflex Perio Powder
1x Kerr Perio Probe (2 pcs)
Mat. no. 1.013.5087
KaVo DIAGNOcam
Light years ahead of caries

Detecting caries early is good. Detecting caries safely is better. KaVo DIAGNOcam combines both. Thanks to the intuitive handling, it is possible to diagnose caries with extreme safety with almost no training at all! Clinically established and proven in practice through millions of recordings.

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 A flap 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.

Accuracy of caries detection

Visual inspection: 2%
Bitewing radiographs: 96%
KaVo DIAGNOcam: 99%

Extract from the clinical study on the KaVo DIAGNOcam.
Ludwig Maximilians-University Munich, 2013

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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.

Accuracy of caries detection

Visual inspection: 2%
Bitewing radiographs: 96%
KaVo DIAGNOcam: 99%

Extract from the clinical study on the KaVo DIAGNOcam.
Ludwig Maximilians-University Munich, 2013
The intuitive user interface of the DIAGNOcam software

The KaVo DIAGNOcam is designed so that all procedures are intuitive and carried out in a matter of seconds. Integrated functions such as the recording assistant, a clear structure and easy-to-understand symbols make diagnostics almost as easy as recording itself.

Integrated recording assistant

- Arrow keys above and below the tooth symbol show how to best achieve the perfect distance to the tooth.
- The tooth symbol lights up when the optimal recording position is reached.
- Take steady photos or videos via the ring on your KaVo DIAGNOcam.

Tooth and deciduous tooth chart

- Select with one click under the recording field.
- Automatic display of tooth chart with respective tooth numbers.
- Automatic ordering of recorded teeth for immediate marking of findings.

Easy categorisation

- Four categories for quick tooth diagnosis.
- Overview of overall situation through signal colours for lesions, monitoring and healthy tooth status, for example, on the tooth/deciduous tooth chart.

Highly precise visualisation

- Optimised diagnostics thanks to simple contrast (left/right) and brightness (up/down) adjustment.
- Ability to directly mark discovered lesions on tooth images using the pen symbol — for patient conversations that are visibly more convincing.

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 minimally invasive 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

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
- 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. 1.004.9400
DIAGNOdent pen sapphire fissure probe: Mat. no. 1.002.6967
DIAGNOdent pen sapphire proximal probe: Mat. no. 1.002.6970
DIAGNOdent pen sapphire peri-probe: Mat. no. 1.004.0370
Sterile cassette for DIAGNOdent pen probes: Mat. no. 1.002.7030

KaVo ERGOcam One

A small camera with a big reputation.
- Use images with significant depth of field and outstanding colour reproduction to help explain your patients’ particular situation to them.
- The significant depth of field means there is no need to focus.
- 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
- Mat. no. 7.011.2130

DIAGNOdent pen 2190:
DIAGNOdent pen Display 2191:
DIAGNOdent pen sapphire fissure probe:
DIAGNOdent pen sapphire proximal probe:
DIAGNOdent pen sapphire peri-probe:
Sterile cassette for DIAGNOdent pen probes:

KaVo

Diagnostics

‘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.’

Prof. Dr Adrian Lussi, University of Bern

An outstanding instrument’
Restoration

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

SONICflex
As a multifunctional instrument, the KaVo SONICflex can be used for several steps with the appropriate tips. It is notable for its precise and minimally invasive removal of dental substance.

Primary preparation: opening the cavity
When it comes to opening the cavity and creating the contour and the necessary depth, KaVo’s very powerful high-speed instruments or turbines are ideal for processing work performed at high speeds. The small head, the patented head/knee angle and the powerful light provide the best view.

Secondary preparation: caries excavation
A green shank, with a suitable KaVo INTRA head, is perfect for precise removal of carious dentine when used at a constant low speed.

Wall/margin preparation
For optimum preparation of the cavity and the best contact between the prepared margins and the filling material in the further course of treatment, KaVo high-speed instruments or KaVo turbines are absolutely perfect, thanks to their extremely precise rotation.

Filling therapy
Great combinations can be achieved by teaming KaVo devices with Kerr™ products such as the SonicFill™ bulk fill composite system or the Kerr Demi™ Ultra. (Orderable only via Kerr)

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.

Taking care of filling and occlusion
Thanks to outstanding rotation performance, KaVo high-speed instruments and turbines can shape precise fillings and achieve optimum occlusion results.

- 62 -
KaVo
- 63 -
KaVo
Restoration

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 new 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 resin-based 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.

Extract from:
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 an 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.
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.

Endo clean set I 105° or 75° angle, 1x holder no. 96 / 96A and 6x endo clean needles 015, 020 and 025 each: Set: 1.006.2045 / Set A: 1.007.1142
Endo clean holder no. 96: 1.008.5163 / 96A: 1.008.5164
Endo clean needles (6 pcs each) for all SONICflex: 015 white: 1.006.2042 020 yellow: 1.006.2043 025 red: 1.006.2044

PiezoLED, endodontic tips

PiezoLED is fully adjustable to suit individual requirements, which also makes it ideal for endodontic purposes. An overview of the various tips associated with its broad range of applications can be found on page 42–43.

Important information regarding material numbers:
XX: Tip for SONICflex 2005/2002 (long thread)
XXA: Tip for SONICflex 2008 (short thread)
**Integrated endo function**

**KaVo Kerr elements e-motion**

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 function of the ESTETICA E50 Life and ESTETICA XE50 Vision

Mat. no. 1.009.1620

**MASTERmatic LUX**

shank M20 L (1:1)

For cavity and crown preparation, finishing, caries excavation and endodontic treatments

Mat. no. 1.009.1620

**KaVo Kerr elements e-motion**

Your „safe“ bet for better endodontics!

The new KaVo Kerr elements e-motion system combines efficiency and safety: the improved Adaptive Motion feature offers greater cutting power and the new torque-limiting feature minimises the risk of files becoming deformed or breaking.

KaVo Kerr elements e-motion was fully developed and manufactured in Germany. The accompanying stainless steel handpiece is made by KaVo. The device, thanks to its user-friendly colour touchscreen interface, is easy to operate – you’ll individually adjustable presettings, each with up to 10 files.

EU: Mat. no. 815-1712
UK: Mat. no. 815-1709
Eastern Europe: Mat. no. 815-1702

(Observable only via Kerr)

**MASTERmatic and INTRA heads**

**INTRA Endo head L3 T**

Stroke 0.4 mm, for manual root canal instrument with grip diameter 3.5-4.4 mm

Mat. no. 1.009.1623

**INTRA Endo LUX head L3**

Reciprocating rotation through 60°, for manual root canal instrument, with grip diameter 3.5-4.0 mm

Mat. no. 1.009.1622

**INTRA Endo head L55**

Reciprocating rotation through 60°, for manual root canal instrument with contra-angle shaft with diameter 2.35 mm

Mat. no. 1.009.1626

**INTRA Endo head L62 (1:1)**

For contra-angle burs and root canal filler instruments

Mat. no. 1.009.1630

**MASTERmatic LUX reducing shank M29 L (7:4:1)**

Maximum treatment flexibility with 14 exchangeable heads

Mat. no. 1.009.3580

Mat. no. 1.008.1834

**INTRA Endo head L68 B (1:1)**

For cavity and crown preparation, finishing, caries excavation and endodontic treatments

Mat. no. 1.009.1620

**SMARTmatic**

ENDO S81 (8:1)

Green contra-angle for endodontics, max. drive speed: 40,000 rpm, for files with a shaft diameter 2.35 mm

Mat. no. 1.011.6780

**INTRA Endo head L62 (10:1)**

For contra-angle burs and root canal filler instruments

Mat. no. 1.008.1830

**INTRA Endo head L62 (10:1)**

For contra-angle burs and root canal filler instruments

Mat. no. 1.008.1830

**INTRA Endo head L62 (10:1)**

For contra-angle burs and root canal filler instruments

Mat. no. 1.008.1830

**INTRA Endo head L68 B (1:1)**

For cavity and crown preparation, finishing, caries excavation and endodontic treatments

Mat. no. 1.009.1620

**MASTERmatic LUX**

shank M20 L (1:1)

For cavity and crown preparation, finishing, caries excavation and endodontic treatments

Mat. no. 1.009.1620

**ENDOadvance LUX handpiece NT 120L**

The safety — in terms of canal preparation — offered by light, torque limiting and NiTi files makes root canal preparation both easier and safer.

Perfect balance of motor, handpiece and hose for the ergonomic usability associated with a stand-alone device

Glass rod light conductor, head angle 100°, Plasmatec coating, perfect access to root canals in molar area too, small head keeps total height low, push-button chuck, for root canal instruments with diameter 2.35 mm, speed reduction 120:1, 4 adjustable torque levels (0.25 Ncm, 0.5 Ncm, 1.0 Ncm, 3.0 Ncm)

12-month warranty

Mat. no. 1.002.4497

Mat. no. 1.002.4497

Mat. no. 1.002.4497

Mat. no. 1.002.4497

Mat. no. 1.002.4497
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 Tomotsuka,
Director of the Tomotsuka Dental Clinic Perio-Implant Center in Tokyo

1) Formation of tooth implant bed
2) Forming the lateral window during a sinus lift using a KaVo SURGmatic straight handpiece
3) Preparation of the alveolar crest after the tooth extraction
4) The drilling occurs after the preparation.
5) The implantation can be done safely and carefully.

SONICflex for surgery

Thanks to its numerous tips, the 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 38–41.

Important information regarding material numbers:
XX: Tip for SONICflex 2003/2000 (long thread)
XXA: Tip for SONICflex 2008 (short thread)

SONICflex, surgical tips

Crown extension tip 020 no. 90 | small, straight, exterior diamond-coated (D46)
90: 1.017.3307 / 90A: 1.017.3302

Bone tip no. 80 | square, cutting
80: 1.004.3875 / 80A: 1.006.2006

Crown extension tip 020 no. 91 | small, angled, exterior diamond-coated (D46)
91: 1.017.3303 / 91A: 1.017.3301

Bone tip no. 81 | ball, large, diamond-coating D46
81: 1.004.3876 / 81A: 1.006.2008

Crown extension tip 020 no. 92 | small, angled, exterior diamond-coated (D46)
92: 1.017.3305 / 92A: 1.017.3306

Bone tip no. 83 | saw sagittal

Crown extension tip 030 no. 93 | large, straight, exterior diamond-coated (D46)
93: 1.017.3307 / 93A: 1.017.3308

Bone tip no. 84 | saw axial
84: 1.004.3870 / 84A: 1.006.2014

Crown extension tip 030 no. 94 | large, angled, exterior diamond-coated (D46)
94: 1.017.3309 / 94A: 1.017.3310

Bone tip no. 85 | elephant foot
85: 1.006.0647 / 85A: 1.007.1624

Crown extension tip 030 no. 95 | large, angled, exterior diamond-coated (D46)
95: 1.017.3311 / 95A: 1.017.3312

Bone tip no. 86 | bone harvester
86: 1.006.0741 / 86A: 1.007.1625

Bone tip no. 87 | saw axial, replaceable saw blades, saw blade thickness: 0.15 mm
87: 1.006.1404 / 87A: 1.007.1627
Saw Blades (9 pcs): 1.006.1405
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, speed range: 0–40,000 rpm

**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
- Freely programmable work sequences and image-based representation of all program steps help simplify the work to be done.

**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
(including INTRA LUX S600 LED, sterile hose set, motor cable and instrument tray)

**SURGmatic S201 contra-angles (20:1)**
- Removable head, easy to clean
- EXPERTgrip for outstanding grip and easy hygiene
- Small head with internal cooling system as per Kirschner and Meyer
- External cooling via a coolant connection on the head
- Max. torque of 55 Ncm
- Hexagon chuck system for a long service life (instruments with XL/XC added to their name)
- S201 XL/XC contra-angles with optimised toothing at the head and improved ball bearings
- S201 L (with light): Mat. no. 1.009.0470
- S201 C (without light): Mat. no. 1.009.1100
- S201 XL (with hexagon and light): Mat. no. 1.010.2332
- S201 XC (with hexagon, without light): Mat. no. 1.010.2333

**Surgical devices**

**Motor**

**Contra-angles**

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

Handpieces and contra-angles with light

MASTER series

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. 1.002.0911

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

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

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
Mat. no. 7.002.3693
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

SURGmatic
handpiece S11 C (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. 1.002.1005

INTRA surgical
handpiece 3610N1 (1:1)
For handpiece burs with a special length of 70.0 mm, external coolant connection, easy to dismantle
Mat. no. 0.524.5610

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. 0.524.5620

INTRA surgical
handpiece 3610N3 (1:1)
For handpiece burs with a special length of 52.5 mm, external coolant connection, easy to dismantle
Mat. no. 0.524.5630

Handpieces and contra-angles without light

EXPERT series

SURGmatic
handpiece S11 C (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. 1.002.1005

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 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

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

Handpieces and contra-angles with light

MASTER series

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. 1.002.0911

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

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

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
Mat. no. 7.002.3693
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

SURGmatic
handpiece S11 C (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. 1.002.1005

INTRA surgical
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

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

For perfect hygiene we rely on proven efficiency.

Dr Danilo Nadalini and Dr Alberto Nadalini
Dentists, Trient
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 push-button during operation.
   Never press or wipe the push-button 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.

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.

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.

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

   It is generally advisable to disinfect by wiping. If excessive disinfectant or a non-approved disinfectant is sprayed onto the instrument or the motor/turbine coupling, malfunctions may occur.

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

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.
**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, outlet-specific, 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

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**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**

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**Reprocessing & maintenance**

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**KaVo CLEANspray/DRYspray**
Cleaning and drying spray for validated intensive manual cleaning of the inside of instruments. Proven by experts to remove residual protein.
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
- COMFORdrive adapter (1 pc): Mat. no. 1.007.3350
- Cleanpac packaging (10 pcs): Mat. no. 0.411.9691

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**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:**
- INTRAmatic adapter (5 pcs): Mat. no. 0.411.9911
- MULTIflex adapter (5 pcs): Mat. no. 0.411.9921
- COMFORdrive adapter (1 pc): Mat. no. 1.005.3154
- Spray head for NSK turbines (1 pc): Mat. no. 1.005.8436
- Spray head for Morita turbines (1 pc): Mat. no. 1.005.8275
- Spray head for Sirona turbines (1 pc): Mat. no. 1.005.8365
- Cleanpac packaging (10 pcs): Mat. no. 0.411.9691

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**KaVo CLEAN/DRYspray**
Cleaning and drying spray for validated intensive manual cleaning of the inside of instruments. Proven by experts to remove residual protein.
Pack. KaVo CLEAN/DRYspray 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
- COMFORdrive adapter (1 pc): Mat. no. 1.007.3350
- Cleanpac packaging (10 pcs): Mat. no. 0.411.9691

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**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, outlet-specific, 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

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**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**

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**KaVo CLEAN/DRYspray**
Cleaning and drying spray for validated intensive manual cleaning of the inside of instruments. Proven by experts to remove residual protein.
Pack. KaVo CLEAN/DRYspray 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
- COMFORdrive adapter (1 pc): Mat. no. 1.007.3350
- Cleanpac packaging (10 pcs): Mat. no. 0.411.9691

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**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, outlet-specific, 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

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**KaVo QUATTROcare Plus Spray**
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- COMFORdrive adapter (1 pc): Mat. no. 1.007.3350
- Cleanpac packaging (10 pcs): Mat. no. 0.411.9691

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**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:**
- INTRAmatic adapter (5 pcs): Mat. no. 0.411.9911
- MULTIflex adapter (5 pcs): Mat. no. 0.411.9921
- COMFORdrive adapter (1 pc): Mat. no. 1.005.3154
- Spray head for NSK turbines (1 pc): Mat. no. 1.005.8436
- Spray head for Morita turbines (1 pc): Mat. no. 1.005.8275
- Spray head for Sirona turbines (1 pc): Mat. no. 1.005.8365
- Cleanpac packaging (10 pcs): Mat. no. 0.411.9691
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 part’s 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, the 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!

1. Visit www.kavobox.com and select KaVo Original Factory Repair. If you like, you can order an empty KaVo BOX™ up front.
2. 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.
4. 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

KaVo BOX™ — Original Factory Repair is available in certain countries only. In all other countries, please contact your authorised KaVo dealer.
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@kavokerr.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.

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| Neither key nor tray are from KaVo | | | | | |
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Dental Excellence in every area

**Practice equipment**
KaVo treatment units and lights, dental chairs, patient communication systems, dental microscope and additional operatory accessories

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

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

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

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