

Durable, reliable quality for your instruments.





Your KaVo quality advantage.

One hundred years of experience and more than five million KaVo dental instruments sold reflect Dental Excellence throughout the world. Four of the numerous quality proofs:

- > During manufacture we attach high importance to precision, and we provide high internal quality standards such as dust-free assembly in Biberach.
- > Up to 70% of the dental instruments produced by other manufacturers require essential repair during the first four years, at KaVo this is only 30% – thus KaVo is the market leader (source; GfK poll ZaBus March 2009)
- > The repurchase rate 98% represents a very high customer satisfaction with regard to the quality of our products.
- > Regular certifications nsure continuously high quality. KaVo is EN ISO 9001 and EN ISO 13485 and also according to the guideline 93/42/EG for medical products certified.



Your KaVo innovation benefit.

With innovation from passion and more than 2,200 patents and registered utility patterns at home and abroad we contribute to your daily success. Some particularly successful examples:

- > KaVo COMFORTdrive, the first contra angle with integrated electro motor combines power and ease.
- > The changeable KaVo spray microfilter optimises spray cooling and reduces service costs.
- > The automatic pressure regulation valve for turbines grants high moment of force and long service life.
- > The patented head and knee angles of 100° and 19° for KaVo dental instruments grant optimal access to the preparation area.
- > SONICflex Quick Coupling accelerates and simplifies the scaler tip change.



Your KaVo system solution benefit.

Gain profitability and protection of investment with perfectly adjusted solutions:

- > You do not need to purchase expensive new devices when you can replace e.g. the high-pressure instrument lamp with the new KaVo MULTI LED.
- > Protection of your investment is significantly increased by the long term availability of spare parts.
- > With each new development we attach high importance to corresponding system solutions so that cost-efficient upgrades are also possible in the future.



Your KaVo safety benefit.

KaVo creates the prerequisites for best treatment safety and for infection protection of the dentist, assistants and the patient during each treatment. This can be proven with hands-on examples:

- > With its holding power of up to 30 N, the new, innovative FG chuck for KaVo turbine drill shanks by far exceeds the required standard and now ensures an even better long-term grip for your dental burs
- > Innovative hygiene solutions, like the integrated anti-suck back system in the GENTLEsilence series and the easy-to-clean and sterilisable surfaces, provide additional protection against cross contaminations.









More than million dental instruments sold worldwide





MASTERtorque – Very powerful. Whisper Quiet. For relaxed work.



GENTLEpower hand and angle pieces

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



NEW Innovative FG chuck for maximum durability.

- > KaVo chucks have always been characterized by high holding power and breakage resistance.
 With the aim to obtain the highest possible quality, KaVo has subjected the chuck for KaVo instruments to comprehensive tests and has improved it once again the result: an even longer life cycle combined with an easily activated press-button.
- > The chuck was optimised using the most advanced FEM (Finite Elements Method) calculations. Thus for example bending strength (1 cycle = 1 drill change) could be improved with these optimizations by at least 60%.





GENTLEpower LUX





GENTLEpower LUX 25 LP: its quiet operation is its strength.

- > Amazingly quiet operation thanks to Triple-Gear for more relaxed work without bothersome vibrations
- > Comfortable for both the dentist and the patient thanks to very low noise level during treatment (55 dB(A))
- > More space thanks to the patented KaVo 100° / 19° head / knee angle combination
- > Superior visibility thanks to small head dimensions (H = 15.0 mm; \emptyset = 10.3 mm)
- > More safety: exchangeable spray microfilter ensures optimal cooling and prevents thermal damage of the tooth

Mat. no. 1.001.2849

COMFORTdrive – work comfortably and with low level of fatigue

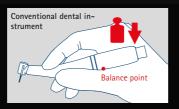
Durable steel head for long durability



- > The innovation for treatment units KaVo ESTETICA E80, E70 and Primus 1058
- > The lightest-weight electric contra-angle handpiece on the market!
- > work relaxed and with low level of fatigue due to the low weight (141 g) and short length (162 mm)
- > Work with special precision thanks to optimal balance, less load acting on the fingers
- > Work powerfully and efficiently with up to 200,000 rpm and 30 W output

 Mat. no. 1.000.5500t





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



Master assessments from practical experience:

"The 100° head angle of the GENTLEpower LUX 25 LP permits work in difficult-to-access areas of the oral cavity. Compared to the predecessor models, the smoothness and the low noise level of the contra-angle handpieces is impressive."

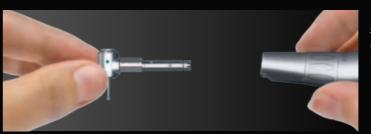
Dr. med. Thorsten Kleinert. Berlin



GENTLEpower LUX – 14 exchangeable heads for unlimited versatility.

Invest in just a single contra-angle handpiece with reducing shank. Our broad range of INTRA heads offers you a comprehensive set of options for all applications.





Thanks to the KaVo quick-action safety retention collar, the heads can be simply and quickly removed from the shank and exchanged.

Exchangeable heads according to indications and combination recommendations:

Restoration	Prophylaxis	Endodontics	Surgery
>L68 (1:1, up to 40,000 rpm) >L68 B (1:1, up to 40,000 rpm) >L67 (2:1, up to 20,000 rpm)) >L52 (1:1, bup to 40,000 rpm) >L80 (1:1, up to 40,000 rpm) >L66 B (3:1, up to 13,300 rpm)		> L68 B (1:1, up to 40,000 rpm) > L66 B (3:1, up to 13,300 rpm) in combination with endodontics function of the KaVo ESTETICA E80, E70 and E50 with torque control	>L22 (1:1) maximum operating speed 20,000 rpm >
> L68 (1:1, up to 14,800 rpm) > L68 B (1:1, up to 14,800 rpm) > L67 (2:1, up to 7,400 rpm) > L52 (1:1, up to 14,800 rpm) > L80 (1:1, up to 14,800 rpm) > L66 B (3:1, up to 4,950 rpm)	>L31 (2:1, bis 7,400 U/min) >L61 G (0.8 mm lift, up to 14,800 strokes) >L61 R (0.8 mm lift, up to 14,800 strokes)	>L62 (10:1, up to 1,500 rpm)	>L22 (1:1, up to 14,800 rpm)
> L68 (1:1, up to 5,400 rpm) > L68 B (1:1, up to 5,400 rpm) > L67 (2:1, up to 2,700 rpm) > L52 (1:1, up to 5,400 rpm) > L80 (1:1, up to 5,400 rpm) > L66 B (3:1, up to 1,800 rpm)	>L31 (2:1, up to 2,700 rpm) >L61 G (0,8 mm lift, up to 5,400 strokes) >L61 R (0,8 mm lift, up to 5,400 strokes) >L53 (90° mutually)	>L53 (90° mutually) >L3 (90° mutually) >L3 Y (0.4 mm lift) maximum operating speed 3,000 rpm >L62 (10:1, up to 540 rpm)	

The overview shows the recommended combination of KaVo GENTLEpower shanks and INTRA heads as well as the resulting operating speed. Unless otherwise specified, these combinations ensure that the maximum drive speeds of the heads are not exceeded.

Master assessments from practical experience:

"Pleasant weight, good grip, superior smoothness in all speed ranges, these are the outstanding properties of the KaVo Master Series contra-angle handpieces. Due to their low wear, which speak for their excellent quality, they are moreover very interesting economically."

Andreas Clemens, Gelnhausen





Restoration

INTRA head L68

- Transmission ratio 1:1
- For contra-angle burs
- With push-button tensioning, debris deflector disc, and reinforced chuck system
- Removal of carious material; preparation of the cavity floor
- Maximum operating speed 40,000 rpm

Mat. no. 1.008.1833

INTRA miniature head L52

Transmission ratio 1:1Ideal for miniature

(16 mm)

• With pushbutton chuck

contra-angle burs

- For the best viewing conditions when removing carious materials, ideal for treatment in narrow areas or when treating children
- Maximum operating speed 40,000 rpm

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INTRA head L67

- Reduction ratio 2:1
- For contra-angle burs
- With push-button tensioning, debris deflector disc and reinforced chucking system
- Increased low-down pull compared to L 68
- Removal of carious material; preparation of the cavity floor
- Maximum operating speed 20,000 rpm

Mat. no. 1.008.1832

INTRA head L80

- Transmission ratio 1:1
- For turbine burs with 1.6 mm diameter
- With pushbutton chuck
- Finishing and forming chewing surfaces after hardening of the filling material; large and effective pre-polishing; also ideal for caries excavation with FG hard metal drills
- Maximum operating speed 40,000 rpm

Mat. no. 1.004.4456

Mat. no. 1.008.1825

Restoration / Endo

INTRA head L68 B

- Transmission ratio 1:1
- For contra-angle burs and root canal instruments
- Ball-bearing mounted push-button chuck
- Removing carious materials; preparation of the cavity floor; rotating preparation of root canals with NiTi files, for example
- Ideal for endodontic uses in conjunction with KaVo GENTLEpower 20 LP and KaVo ESTETICA E80, E70 or E50 with endodontics
- Operating speed 100 – 40,000 rpm

Mat. no. 1.008.1834

INTRA head L66 B • Reduction ratio 3:1

- For contra-angle burs and root canal instru-
- Ball-bearing mounted push-button chuck
- Removing carious materials; preparation of the cavity floor; rotating preparation of root canals with NiTi files, for example
- Ideal for endodontic uses in conjunction with KaVo GEN-TLEpower 20 LP and KaVo ESTETICA E80, E70 or E50
- with endodontics functionOperating speed35 13,300 rpm

Master assessments from practical experience:

"I use the 68 LH, 3 LDSY and 61 LR heads mounted on different shanks (20 LN and 7 LN). The shanks still stem from the initial equipment and did not require any repairs since 1994. (...) I can only recommend the Kavo instruments and the philosophy of exchangeable heads to all colleagues."

Dr. Steffen Doering, Berlin





Endodontics

INTRA head L62

- Reduction ratio of 10:1
- With pushbutton chuck for handpiece instruments
- Preparation of root canals with NiTi files, fill root canals with Lentulo, condense root canal materials, gently insert root posts
- Maximum drive speed 20,000 rpm; operating speed 10 – 2,000 rpm

Mat. no. 1.008.1830

INTRA Endo head L53

- For root canal instruments with 2.35 mm shaft diameter.
- Alternating rotating movement of 90° to avoid fracture
- With push-button chuck
- Preparation of root canals
- Maximum speed 3,000 rpm - recommended shank: 29 LP / 2x green

Mat. no. 1.008.1826

INTRA Endo head L3

- For root canal instruments with handle diameters of 3.5 mm to 4 mm
- Alternating rotating movement of 90° to avoid fracture
- With pushbutton chuck

• Preparation of root canals

 Maximum speed 3,000 rpm - recommended shank: 29 LP / 2x green

Mat. no. 1.008.1822

INTRA Endo head L3 Y

- For root canal instruments with handle diameters of 3.5 mm to
- Lift motion 0.4 mm
- Force-absorbing adjustment to the torsional force resistance thanks to the radial, free rotatability of 360°.
- With pushbutton chuck
 - Preparation of root canals, lift motion ideal for use with Hedström files
 - Maximum speed 3,000 rpm - recommended shank: 29 LP / 2x green

Mat. no. 1.008.1823

Prophylaxis / Prophylaxis/Special applications

INTRA EVA head L61 R

- Precise locking of the dental instrument into one of 36 snap-in positions (use with Proxoshape, MarginShaper, Bevelshape, Cavishape, Rootshape files, as well as Ortho Strips from INTENSIV).
- Damped 0.8-mm lift, for gentle and efficient treatment and preparation, respectively
- For perfect removal of excess filling material and working restored proximal surfaces (with Proxoshape files)
- For quick and controlled, unilateral or bilateral interdental opening, enamel reduction and polishing in orthodontics (stripping) with Ortho Strips
- For finishing borders of veneer preparations (with Bevelshape files)

- For bevelling anterior composites, inlays and onlays (with Bevelshape files)
- For crown preparations when finishing chamfers and bevelling the shoulder preparation (with Bevelshape files)
- For removing enamel lamellae and for finishing cavity walls; (with Cavishape files)
- For removing soft dental plaque and calculus, as well as excess filling material on the root surface (with Rootshape files)
- For quick and easy bevelling, as well as preparation and finishing of cavity walls using a dental instrument (with MarginShaper)
- Application with sufficient water spray (min. 50 ml/min)
- Maximum drive speed 20,000 rpm

INTRA EVA head L61 G

- Damped 0.8-mm lift, for gentle and efficient treatment
- Files can be freely turned (Proxoshape, Bevelshape, Cavishape and Rootshape files by INTENSIV)
- Interior cooling possible (especially for subgingival applications)
- Indications see 61 LRG (use of ortho-strips with 61 LG restricted, use of Margin-Shaper not possible)
- Application with sufficient water spray (min. 50 ml/min)
- Maximum drive speed 20.000 RPM

Mat. no. 1.008.1828

INTRA Prophy head L31

- Reduction ratio 2:1
- With thread and knob for snap-on and screw-type polishing attachments (cups, rubber disks and brushes)
- With multiple sealing to prevent as much as possible the penetration of polishing paste and the associated wear
- Remove plaques, polish fillings and smooth the tooth surface, e.g. after powder blast treatment or calculus removal
- Maximum drive speed 15.000 rpm

Mat. no. 1.008.1824

Mat. no. 1.008.1829

Surgery

INTRA micro head L22

- Transmission ratio 1:1 • With round drill size 2
- Also fits KaVo round bur size 0 or inverted cone bur size 2 and size 0
- Microhead with extremely small dimensions for microsurgical procedures such as apicectomies (through a bone
- Maximum operating speed 20,000 rpm



NTRA ENDO/PROPHY Head L53

- Now also for polishing attachments with shaft diameter 2,35 mm
- The 90° alternating rotary movement prevents the polishing paste from being scattered.
- With pressbutton chuck
- Removes plaque, polish fillings and smoothes the tooth surface, e.g. after scale and
- Maximum operating speed 3,000 rpm - recommended shank: 29 LP/2 x green

New application!

Mat. no. 1.008.1826



KaVo. Dental Excellence.

KaVo care More KaVo dental instruments

KaVo Hygiene – cost-efficient care for your instruments.



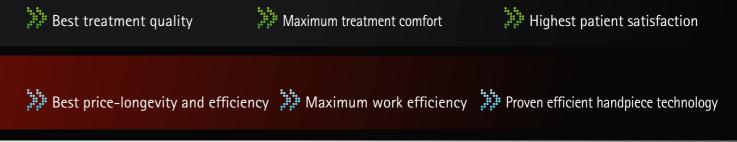
Master Series A true master knows no compromise.

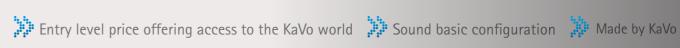
Additional instruments of the KaVo Master Series.

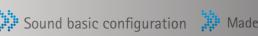


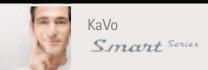
You know what you want. We've got what you need.

The handpiece series from KaVo - the perfect handpieces for every dentist.









A smart mind knows the difference.

Real experts know their strengths.



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KaVo product support services:



Dental instruments



Treatment units



CAD/CAM



X-Ray



Technical hotline



Advanced training/seminars



Replacement parts



Exchange parts



Repair service



Quality management



Studies



User reports

The advantages of KaVo engineering: Outstanding value

Your KaVo quality advantage.



KaVo quality pays for you because it guarantees reliability, low maintenance and long service life that are above average in international comparison:

- Long-term, complete reliability of all KaVo products
- Treatment successes: absolutely careful and precise machining
- Safety: comprehensive quality controls and tests
- Cost efficiency: practically no downtimes or repairs

Your KaVo innovation benefit.



Our development team – the largest and best in the dental industry – has a reputation as successful pioneers. With KaVo innovations, you ensure your future success today.

- Investment protection: future technologies can be integrated without difficulties
- Health protection and time saving: innovative automated hygiene functions
- Uniform standards: more than 2,200 patents and registered utility models

Your KaVo system flexibility



With KaVo you are taking a systematic approach to success: you can supplement and retrofit our products at any time. You thus avoid expensive new acquisitions and protect the value of your original investment.

- Functional and combination safety: All components from one source
- Reliability: perfectly mutually adapted products
- Provision for the future: spare parts available longer, additional components can also be integrated economically at a later date

The benefits of KaVo German engineering



• Trustworthiness: highest international and additional internal standards

KaVo dental products.

- Precision and safety: exemplary, world-class production techniques
- Sustainability: proven and innovative technologies and materials





