KaVo turbines, straight and contra-angle handpieces

# A true masters knows no compromise.

KaVo Master Series

KaVo MASTERtorque<sup>™</sup> with Direct Stop Technology, 23 Watt output and extremely guiet operating noise

> MASTERtorque LUX M9000 L Turbine

GENTLEpower LUX 25 LP speed-increasing handpiece

14 EXCHANGE-ABLE HEADS

**JEN** 

With 14 new INTRA heads for all indications

GENTLEpower LUX 20 LP direct-drive shank

GENTLEpower LUX 7 LP direct-drive shank



# 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 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 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 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.

# Kavo Master Series

1. Highest treatment quality.

- 2. Maximum treatment comfort
- 3. Highest patient satisfaction



More than ..... million dental instruments sold worldwide

0

65



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

### **MASTERtorque:**

- > Optimised speed and efficiency through highly effective processing with an output of up to 23 Watt and a stopping time of approx. 1 second.
- > Quiet for the practitioner and patient through frequency optimisation for very low noise emission during the treatment (57 dB(A)).
- > Relaxed working thanks to the Direct Stop Technology (DST) very short stopping time for more safety.
- > More hygiene and longer service life: DST prevents suckback and thus any intrusion of contaminated spray water
- > Best view thanks to very small head dimensions (H = 13.1 mm;  $\emptyset$  = 12.5 mm)

> More space thanks to the patented KaVo 100° / 19° head / knee angle combination M9000 L Mat. No. 1.008.7900 (with light) M9000 LS Mat. No. 1.008.5400 (with light, fits the Sirona coupling)\*

### GENTLEmini: the ideal supplement – even smaller.

- > Our smallest superior visibility thanks to smallest head dimensions  $(H = 12.1 \text{ mm}; \emptyset = 10.8 \text{ mm})$  – ideal for children and the elderly
- > More space thanks to the patented KaVo 100° / 19° head / knee angle combination
- > Comfortable for both dentist and patient thanks to very low noise level during treatment (59 dB(A))
- > Suitable for both miniature and standard burs 5000 B Mat. no. 1.002.3300

Durable steel head ;

Made of

stainless steel

for long durability

# MULTIflex LUX coupling 465 LED

- > Flexible fitting connection for many instruments
- > Economical no new purchase of LED equipment is required, simply replace high-pressure lamp by KaVo MULTI LED

For all KaVo turbines with MULTIflex connection, SONICflex Airscaler, PROPHYflex, CORONAflex, all INTRAflex LUX motor instruments, RONDOflex

465 LED Mat no 1 007 3197

NSK® = Registered trademark of Nakanishi, Japan Sirona® = registered trademark of Sirona. Bensheim

months warranty.

MASTERtorque, GENTLEmini, INTRA LUX heads, GENTLEpower hand and angle pieces



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



# **GENTLEpower LUX**

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

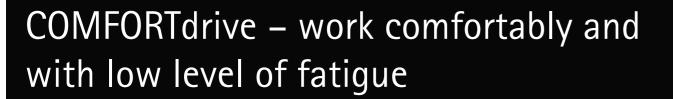
Durable steel head for long durability

### 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

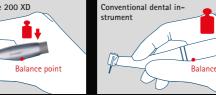


Durable steel head for long durability

# COMFORTdrive 200 XD: powerful, light-weight, and precise.

- > 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





Very small head dimensions for best visibility even with more complex molar preparations

**3-nozzle spray** with ultrafine spray mist for optimum cooling



Light glass rod with 25,000 lux for safe recognition of the preparation margins

**Low running noise, vibration-free operation** during treatment (55 dB(A))

**Amazingly quiet operation** thanks to Triple-Gear without bothersome vibrations

**Exchangeable spray microfilter** for always effective and trouble-free spray cooling

**KaVo Plasmatec coating** for perfect grip and excellent hygiene thanks to optimum sealing

### 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."

High-tech FG chuck for maximum durability and reliability

**KaVo press-button clamping system** with up to 30 N holding power for safe, powerful grip of the dental bur and easy operation

KaVo original ceramic ball bearings extend the life far beyond the average and provide excellent, vibration-free operation

Patented KaVo 100°/19° head/knee angle combination for maximum free visibility and freedom of movement

*Thermodisinfectable* and *sterilisable* up to 138 °C

Can be put onto all **KaVo INTRAmatic motors** and motors connected according to ISO 3964 / DIN 13940

Dr. med. Thorsten Kleinert, Berlin



1 LUA 14

out the

# 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.

# **GENTLEpower LUX 20 LP**

#### > Transmission ratio 1:1

> The practice standard for caries excavation

> Maximum treatment flexibility and options provided by 14 exchangeable heads Mat. no. 1.001.7453

# **GENTLEpower LUX 7 LP**

> Reduction ratio 2.7:1

> Maximum treatment flexibility and options provided by 14 exchangeable heads > Compatible with all INTRA LUX heads

Mat. no. 1.001.7452

# **GENTLEpower LUX 29 LP**

> Reduction ratio 7.4:1

> Maximum treatment flexibility and options provided by 14 exchangeable heads > **Compatible** with all INTRA LUX heads

Mat. no. 1.001.7454

# **GENTLEpower LUX 10 LP**

> For both handpiece and contra-angle burs

> Also for simple extra oral technical jobs such as prosthesis corrections. Mat. no. 1.001.5660



### Exchangeable heads according to indications and combination recommendations:

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

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:

very interesting economically."

For specialised applications, you invest in just a single handpiece head (no further contra-angles required!) and save up to







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

"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

Andreas Clemens, Gelnhausen



# The ingenious KaVo INTRA heads, Giving you the flexibility you require.

65 % harder than the previous model, twice as immune to deformation as compared to titanium. NEW These are the most recent KaVo INTRA heads - the best and most durable heads ever.

- > Long service life due to the special stainless steel composition
- > Hygienic due to a reduction of gaps and edges
- > Reliable best KaVo quality and 2 year warranty



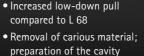
#### Restoration

#### INTRA head L68

- Transmission ratio 1:1
- For contra-angle burs • With push-button tensioning, debris deflector
- disc, and reinforced chuck system

#### INTRA head L67

- Reduction ratio 2:1 • For contra-angle burs
- With push-button ten-
- sioning, debris deflector disc and reinforced chucking system



• Removal of carious material;

floor

40,000 rpm

floor • Maximum operating speed 20,000 rpm

Mat. no. 1.008.1832

#### 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

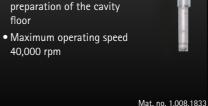
- Ideal for endodontic uses in conjunction with KaVo GENTLEpower 20 LP and KaVo ESTETICA E80, E70 or E50 with endodontics
- Operating speed 100 - 40,000 rpm

function

Mat. no. 1.008.1834

### Master assessments from practical experience:

of exchangeable heads to all colleagues."



#### INTRA miniature head L52

- Transmission ratio 1:1
- Ideal for miniature contra-angle burs (16 mm)
- With pushbutton chuck

#### • 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

Mat. no. 1.008.1825

#### 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

#### INTRA head L66 B

- Reduction ratio 3:1
- 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 GEN-TLEpower 20 LP and KaVo ESTETICA E80, E70 or E50 with endodontics function
- Operating speed 35 – 13,300 rpm

Mat. no. 1.008.1831

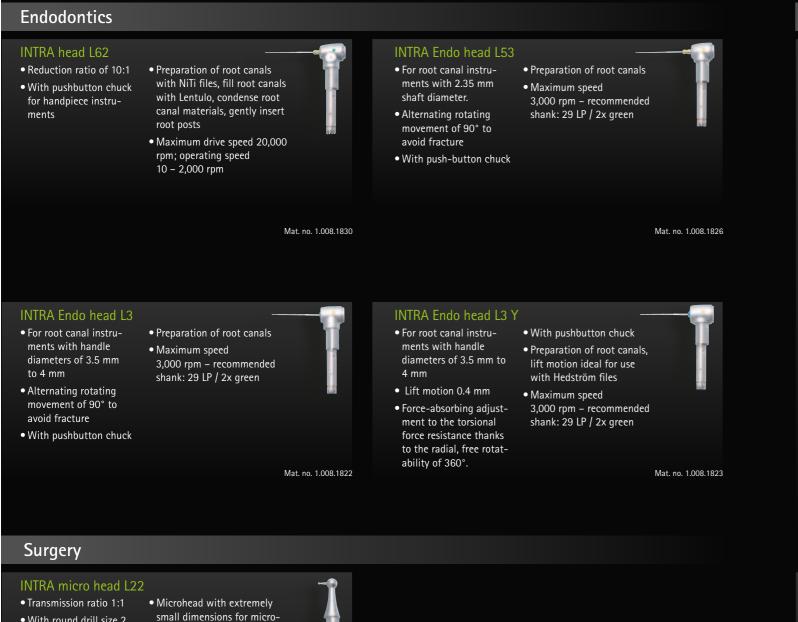
"I use the 68 LH, 3 LDSY and 61 LR heads mounted on different shanks (20 LN and 7 LN). The shanks still stem from the initial equipment and did not require any repairs since 1994. (...) I can only recommend the Kavo instruments and the philosophy

Dr. Steffen Doering, Berlin





#### KaVo INTRA heads



### • With round drill size 2 • Also fits KaVo round bur

size 0 or inverted cone bur size 2 and size 0

surgical procedures such as apicectomies (through a bone window) • Maximum operating speed 20,000 rpm

Mat. no. 1.008.1835

# 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 guick 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

#### NTRA ENDO/PROPHY Head L53

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



polish.

• Maximum operating speed

Mat. no. 1.008.1826





#### 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



# KaVo Hygiene – cost-efficient care for your instruments.



# Additional instruments of the KaVo Master Series.

### Prophylaxis, diagnostic and minimal invasive



Select from more than 50 tips covering the range from prophylaxis to surgery.

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

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

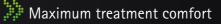


Master Series

Real experts know their strengths. Expert Series

Best price-longevity and efficiency 🐉 Maximum work efficiency 🥻 Proven efficient handpiece technology

Best treatment quality



Highest patient satisfaction





# KaVo product support services:



**Dental instruments** 



CAD/CAM

X-Ray



Replacement parts

Advanced training/seminars

Technical hotline

Exchange parts



# 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

innovation benefit.

Your KaVo



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



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

Play safe and rely on Made in Germany quality – with treatment systems, instruments and all other KaVo dental products.

- •Trustworthiness: highest international and additional internal standards.
- Precision and safety: exemplary, world-class production techniques
- Sustainability: proven and innovative technologies and materials



