At the cutting edge of ergonomics.

product design award

KaVo. Dental Excellence.

Precision + relaxation = KaVo K-ERGOgrip.

The art of dental technology is complex.

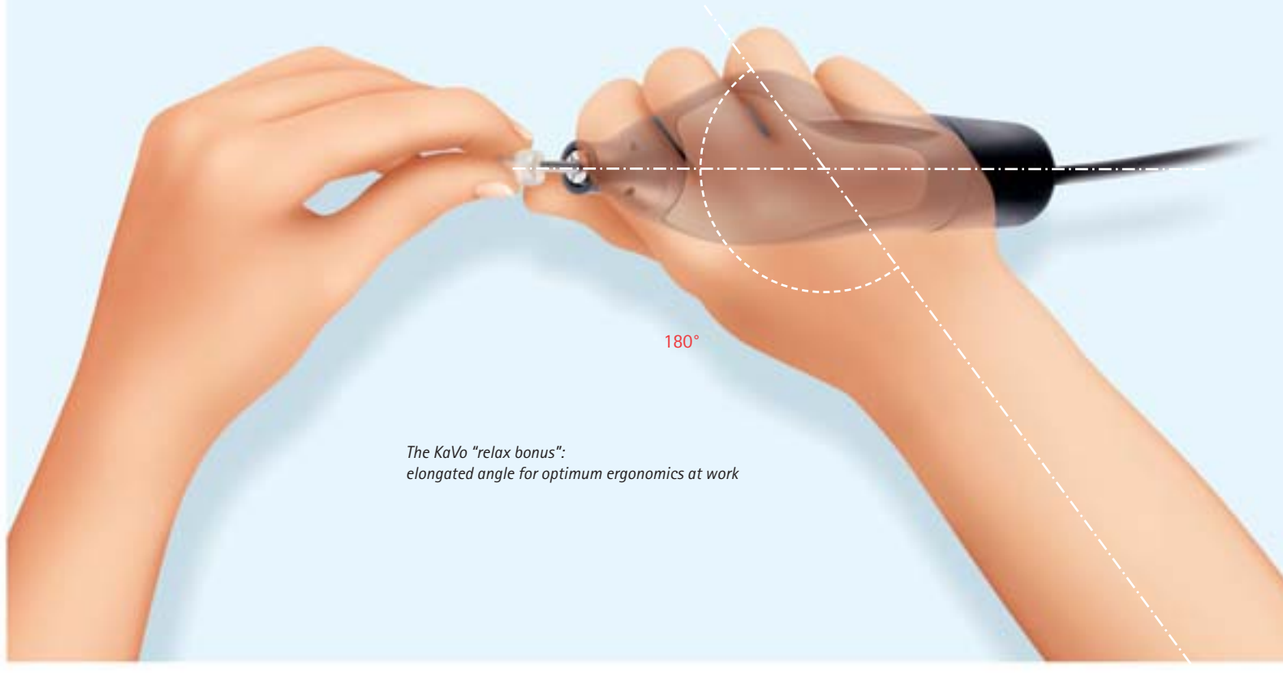
Despite the intricate nature of the work itself, the long periods of maximum concentration typical of complex laboratory tasks often require a lot of stamina. The angle one's wrist needs to be set at in order to work with conventional laboratory drives or handpieces can place dental technicians under significant strain.

Developed and designed in accordance with anatomical needs, KaVo's new K-ERGOgrip laboratory drive is a perfect and logical solution to this problem, as well as weighing even less. The new KaVo K-ERGOgrip is also significantly more compact, at just 140 mm in length.

Absolute perfection at your fingertips.

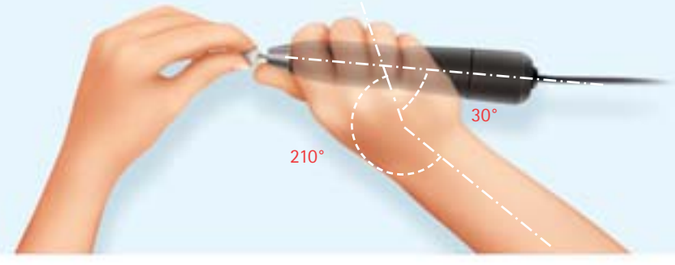
Working in partnership with Germany's Fraunhofer research institute, KaVo's handpiece, whose design reflects the very best in ergonomics, is an absolute masterpiece. As part of the process of creating a handpiece for the KaVo K-ERGOgrip laboratory drive which would provide the ideal response to working needs, video analyses and practical tests involving volunteers were carried out.

The significantly reduced bend of the wrist supports a much more relaxed grip, optimising working conditions and enabling technicians to concentrate fully on the task at hand.
Now, even tedious and complex tasks requiring maximum precision can be mastered "at the flick of a wrist".



The KaVo "relax bonus":
elongated angle for optimum ergonomics at work

Conventional handpieces place the wrist under significant strain



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Performance is everything. KaVo's K-ERGOgrip is even more.

Potential performance statistics are one thing. Putting this potential to best use is something else entirely.

The ability of the KaVo K-ERGOgrip to offer even more is in evidence in its daily application. You've simply got to hand it to the concept of this innovative laboratory drive.

Continuous power at its very best

The groundbreaking grip ergonomics of KaVo's K-ERGOgrip facilitate prolonged fatigue free working.

The drive unit's resilient mechanics have also been designed with optimum performance in mind. Vibration-free and with apparent ease, the collectorless DC motor makes its high-torque power available in a speed range from 1000 to 50,000 rpm.

The KaVo K-ERGOgrip is supplied with two grip shells as standard.

Maximum power on tap

Maximum values can only ever be relative - unless, as is the case with the KaVo K-ERGOgrip, they are combined with functions and performance options that are able to make the most of them.

For example, on the new KaVo K-ERGOgrip, the maximum working speed of 50,000 rpm can be achieved in both CW and CCW rotation and in accordance with the prevailing needs of the workpiece, tool, material and machining strategy concerned.

Power and performance where and when you need it

One of the primary reasons for optimising the interplay of speed and torque in the drive unit is to ensure that laboratory samples are processed in accordance with material requirements.

Here too, the fact that the performance of the KaVo K-ERGOgrip can be adapted in line with prevailing requirements is to the fore:
torque and speed values customised for specific materials can be saved in four control programs and called up as individual preset performance profiles when needed.

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Everything at your fingertips – and easy to keep control.

Precision working under total control

In addition to high levels of concentration, the work of a dental technician requires that the head and hands are free. It is for this reason that all control functions for the KaVo K ERGOgrip have been designed to be easy to program and call up.

Hardware

The functions of the KaVo K-ERGOgrip can be controlled either directly on the central table top unit or via a connected knee or foot control.

Software

Individual users can create performance profiles to meet their specific requirements by presetting and saving torque and speed values in four programs. They can then call up these presets by selecting a program at the touch of a button.

The maximum values for speed and torque can be set separately and independently of these programs.

Display functions

The clear control display on the table-top and knee control also lights up in colour to indicate which of the four programs is currently selected. On the foot control, a coloured light strip indicates which program is currently selected.

Knee control K-Control TLC

Table-top control K-Control TLC

Foot control K-Control TLC

Everything you need at a glance: four basic presettings for speed and torque increase user friendliness and reliability whilst working.

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KaVo K-ERGOgrip Performance data

• Handpiece Material	Material no. 1.003.7555
• Knee control K-Control TLC	Material no. 1.005.4206
• Foot control K-Control TLC	Material no. 1.005.4207
• Table-top control K-Control TLC	Material no. 1.005.4204
• Speed range	1.000 – 50.000 U/min^{-1}
• Max. torque	7 Ncm
• Output	160 W
• Drive system	Collectorless DC motor with drive shaft
• Chuck for shaft	2,35 mm 3,00 mm
• Overall length	140 mm
• Housing	Hand shape optimised in terms of ergonomics, replaceable grip shell

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