The ray of hope in surgery.





KaVo. Dental Excellence.

A shining example of enlightened technology.

The oral cavity is a working area, which is generally characterized by poor visibility and many parts often remaining dark. Even for an experienced implantologist. But now there is light in the treatment. With KaVo INTRAsurg 300 plus - the first surgery unit with an illuminated motor and illuminated instruments.

Cutting, drilling, screwing, KaVo INTRAsurg 300 plus brings your work area under the right light. Whether working in the oral or maxillofacial area, your work will be easier with light. You may only treat what you can see.

However, KaVo INTRAsurg 300 plus goes to work not only with illumination but also with power. Thanks to the high power of the special motor - particularly in the low speed range.

KaVo INTRAsurg 300 plus: a shining example of enlightened technology.



25,000 lux luminous power.
Simply illuminating for dentists who want to see and work more precisely.



KaVo INTRAsurg® 300 plus:
The new outlook.

A far-sighted prospect.

KaVo INTRAsurg 300 plus not only brings light into the oral cavity but also a far-sighted approach to surgery.

With the manual level of the KaVo INTRAsurg 300 plus, you prepare the implant site.

In the program level, you place up to six implants with the program steps. Automatically each time the maximum torque value is determined in each step, so you can reliably assess the primary stability of the inserted implants. For each implant you can be certain of when it can be loaded, i. e. immediate or early loading.

With the supplied calibration device it is possible to check that the displayed torques are correct.

KaVo INTRAsurg 300 plus - for far-sighted prospects.



Manual level:
All important settings at a glance, preparation made easy.



Program level:
Controlled implant placement.



End of program:
Display of the maximum torques for assessing the primary stability.

Power intelligently used.

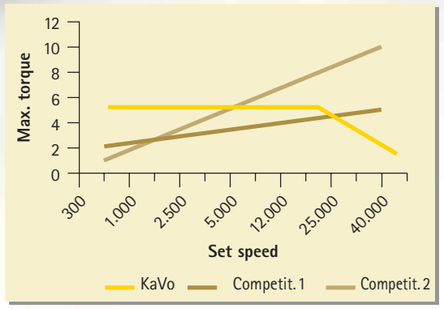
Intelligent power for easy work. That's what the brushless motor of KaVo INTRAsurg 300 plus offers you. The possibility of performing surgical work more easily.

A special motor for maximum power. Even at 300 rpm motor speed. Maximum torque of 5.5 Ncm is available to you in the speed range of 300 to 12,000 rpm. Once the upper speed range is reached, the torque is reduced. Because the faster the revolution the less the power required. Heating-up of the motor is reduced and the bone is protected.

And if you wish, the torque can be limited. An acoustic signal indicates when this limit is reached.

KaVo INTRAsurg 300 plus: a powerful performer.





Intelligence - the true strength. Reduction of the torque protects not only the motor but also the bone.

Carefully designed from head to foot.

KaVo INTRAsurg 300 plus: technology down to the last detail. Because true skill begins with an idea and reaches completion in practice. With you.

After all, it's precisely the little things that make the work more pleasant. Tubes that are not in the way. A foot control that gives you more space. Hygiene that's thorough. That's the basis for efficient work. Little things with a great effect. INTRAsurg 300 plus the basis for satisfied patients who will happily return.



Free your hands during treatment, thanks to the foot control.
It enables you to control the whole procedure.



Whether tubes or motor - everything is completely sterilizable. Very easily and reliably.
The comprehensive solution for thoroughly hygienic work.





No more awkward handling due to the internal, sterilizable coolant tube.

Controlled power plus light.

KaVo INTRAsurg 300 plus, the INTRA-Lux CL 10 handpiece and the INTRA-Lux CL 3-09 contra-angle handpiece: the first surgery unit with a Lux motor. The two suitable instruments with glass rod-light transmission provide optimum vision and power at the surgical workstation. 25,000 lux ensure reliable vision while you are inserting implants. Appropriate gear reductions ensure a steady hand.

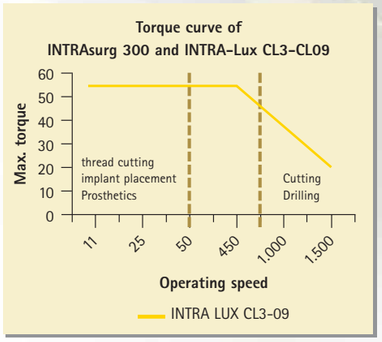
An optimum match: KaVo INTRAsurg 300 plus recognizes the two Lux instruments immediately. Whether you wish to use the contra-angle handpiece or the straight handpiece - the suitable gear reduction is set automatically.

The two INTRA Lux instruments help you during all important work in implantology and surgery: with an impressive top speed. With sufficient power for cutting and drilling. With maximum force at low speed for cutting threads and mounting implants.

Intelligence and light: that's true strength.

INTRA-Lux CL3-09 contra-angle handpiece with separate head (3:1), shank (9:1) and INTRA-Lux CL10 handpiece: perfect harmony.





Intelligence - the true strength. KaVo INTRAsurg 300 plus gives you the power you need. At low speeds for cutting threads and inserting implants. At high speed, the torque is reduced. This protects the motor - and the bone.

Clinical procedure	Speed	Max. torque required
Smoothing of the alveolar ridge	1000 – 1.500 rpm	5 – 10 Ncm
Drilling the cavity	700 – 1.500 rpm	up to 15 Ncm
Tapering the thread	10 – 50 rpm	
- Standard implants		up to 35 Ncm
- Large diameter		up to 50 Ncm
Implant placement	10 – 50 rpm	
- Standard implants		up to 35 Ncm
- Large diameter		up to 50 Ncm
Prosthetics	10 – 50 rpm	up to 35 Ncm

KaVo INTRAsurg 300® plus surgery unit.

Unit

Weight	6,9 kg
Size	31 x 23 x 12,5 cm
Input voltage	100 V; 120 V; 230 V 50/60 Hz
Irrigation function	Motor is switched off, only the pump runs
Display in standby state	Speed range; motor direction; instrument gear reduction; Max. torque, pump delivery (1 - 6)
Display during use	Actual speed, actual torque
Foot control	Motor on/off; Speed (min.-max.); Clockwise/counterclockwise; Pump on/off; Irrigation function; Switch on program; Select program step (forwards/ backwards)
Light	on/off, spot

Motor

Technology	Brushless induction motor
Motor speed	Min. 300 /min; Max. 40.000 /min
Torque	5,5 Ncm (300 – 12.000 /min); 5,0 – 2,0 Ncm (12.000 – 40.000 /min)
Output power	100 W

Software

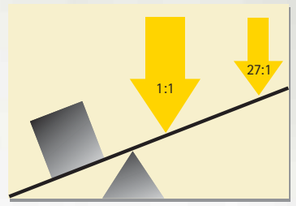
Programs	1 program with 6 steps
Program functions	Instrument gear ratios from 1:2 increasing, to 36:1 reducing Max. speed 15 – 40,000 rpm Max. torque 5.5 to 55 Ncm Pump delivery 20 - 120 ml
Motor direction	Clockwise/counterclockwise
Torque	Max. torque preselectable; acoustic signal output on reaching 90%

INTRA-Lux CL3-09 contra-angle handpiece

Total gear ratio	27:1 reduction(head CL3 = 3:1; shank CL09 = 9:1)
Cooling	External and internal cooling (Kirschner and Meyer)
Max. torque	55 Ncm
Max. operating speed	1,500 rpm with KAVO INTRAsurg 300 plus
Luminosity	25,000 lux

INTRA-LUX CL 10 handpiece

Total gear ratio	1:1
Cooling	External cooling
Max. torque	10 Ncm
Max. operating speed	40,000 rpm
Luminosity	25,000 lux



INTRA-LUX CL3-CL09
Principle: The instrument gear ratio reduces the speed and simultaneously increases the torque several times over.

KaVo. Dental Excellence.

KaVo Dental GmbH · D 88400 Biberach/Riß · Telefon +49 7351 56-0 · Fax +49 7351 56-1488 · www.kavo.com

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