

KaVo EXPERTsurg LUX

# User Report

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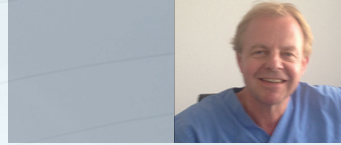
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## KaVo EXPERTsurg in Daily Use

At our joint practice for oro-maxillo-facial surgery with a heavy focus on implantology, we perform the entire range of interventions of dento-alveolar surgery. For a period of eight months, we were given the opportunity to test the newly developed KaVo EXPERTsurg surgical unit in our daily routine practice.

The unit was used frequently during treatments by me and my colleague. During this period of time, we performed approximately 300 interventions. The majority of these interventions involved the placement of dental implants. A smaller fraction involved osteotomies of deep-dislocated teeth and apicoectomies.

The compact and lightweight EXPERTsurg surgical unit is very impressive as its surface is smooth and suitable for hygiene measures. The bottle of the sterile rinsing fluid can be attached quickly and securely and the hose can be inserted easily and reliably into the pump. The sufficiently large display affords a good overview of the various programs and display information about current speed and torque during the treatment.





Much like the unit itself, the flexible motor hose and motor are designed to be smooth and thus amenable to hygiene measures. Since the rinsing fluid is supplied to the motor through a disposable tube system, there are no hollow spaces or nooks and crannies for an easy reprocessing.

The combination of the small and lightweight motor and the flexible motor tube allows ergonomic and fatigue-free working. After auto-calibration, the powerful motor (80 Ncm) allows the work to be highly precise. Most often we used the variable speed control, by means of which the speed is controlled by pressing the foot pedal. There is a learning curve involved in the beginning, since the units we used before had the speed controlled by a horizontal motion of the pedal. But it did not take a long time to become very familiar with this type of control which we now consider preferable. The foot pedal can be used to control other functions as well: It can control the flow rate of the rinsing fluid, change the direction of rotation and select from pre-set programmes.

Until now we never used programmed workflows for surgeries, but the programming possibility and the clear color display made it so comfortable and easy that we started using this feature. It became so enjoyable that for a couple of treatment steps (inserting of implants and thread cutting), we even changed our way of working from manual to automatic. The motor is powerful even at very low speeds, which was quite impressive

For treatments of posterior molar teeth or in difficult anatomical scenarios, the use of hand-pieces equipped with light was a clear advantage. The powerful light helps in the recognition and differentiation of anatomical structures, especially during apicoectomies of molar teeth.



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After use, the surgical motor and motor tube were reprocessed first in a thermo disinfectant and then packaged as sterile goods for sterilisation in an autoclave. In order to prevent kinking of motor hose it was wrapped around the deposition of the surgical motor. The cooling water-supplying tube system is not subjected to reprocessing, as it is intended for single use only.

We reprocessed the SURGmatic surgical handpieces first in a cleaning and disinfection machine and then in an autoclave after adequate care and packaging them as sterile goods. We did not notice any signs of wear and tear during the eight month test period.

Altogether, after a very short period of familiarisation, we found the EXPERTsurg very convincing. Following the short transitional period, we preferred using the new unit over the older surgical units at our practice (KaVo INTRASurg 500 and KaVo INTRASurg 300). We even changed some work-flows (machine-based insertion of implants and tapping) because the unit was very comfortable to use.



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