

MUCH MORE THAN JUST A SURGICAL MICROMOTOR

■ This is what NSK promises with regard to its new Surgic Pro2, which is being presented to the public for the first time at IDS 2019. Not just the foot switch, but other additional devices and expansion functions too can be connected to Surgic Pro2 via Bluetooth.

With the new Surgic Pro2, NSK is introducing an extremely compact dental motor for implantology and oral surgery whose technical qualities are beyond all possible doubt. A torque of up to 80 N cm from a micromotor that has been significantly shortened and made lighter compared with its predecessor model means more than ample power for all conceivable applications. The high-resolution display informs the dentist and his or her assistant at all times about the set and requested parameters. The fact that the ergonomic foot switch is connected to the control unit in the Surgic Pro2 via Bluetooth is another facet that contributes to this device's outstanding operability and user friendliness. The most relevant treatment parameters and program changes can be controlled and regulated virtually hands-free using the wireless foot switch.

Rather than being just a surgical micromotor, Surgic Pro2 is a central

interface for other primary surgical applications. For example, the VarioSurg3 ultrasonic surgical unit and the osseo100+ osseointegration measuring device can be connected to Surgic Pro2 via Bluetooth, with the result that VarioSurg3 can be operated using the same wireless foot switch as Surgic Pro2 and the values measured with osseo100+ can also be seen on the Surgic Pro2 display. The advantage here for the user is that he or she can set up the surgical environment in a confined space and bundle patient- and treatment-related data generated during treatment. It is also possible to visualise this data on a tablet and save it there in PDF and CSV file format. NSK provides apps for iOS and Android free of charge. It goes without saying that the data package can be sent from the tablet or smartphone to any email address and then stored in the electronic patient file. Surgic Pro2 therefore provides new possibilities in surgical treatment.

Surgic Pro2 will be available in two versions from September. The complete set with lighting is equipped with the X-SG20L light titanium contra-angle handpiece, while the device without lighting is standardly equipped with the SG20 stainless-

steel contra-angle handpiece. Because the complete set is ready to use, the user can get to work immediately without any further configuration. ◀

**NSK Europe, Germany/
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PRECISELY MEASURABLE OSSEOINTEGRATION WITH OSSEO 100 OR OSSEO 100+

■ The trend in dental implant treatment today is to allow just a very short time or no time at all to elapse before loading an implant. This places very high demands on the dental professionals involved. If the conditions are not perfect, insufficient primary stability can massively increase the risk of implant loss. NSK's osseo100 measures the stability and osseointegration of implants, thus providing the dentist with information on the correct point in time at which an implant can be loaded.

Osseo 100 is the result of years of research and development, driven by a small team of experts consisting of implant specialists and engineers. Integration Diagnostics Sweden was founded in 2015 with the aim of developing a handy Implant Stability Quotient (ISQ) measuring device. Since November 2018, this team has been

sustainable and supports NSK's philosophy of the greatest possible conservation of resources.

Extensive studies have proved the reliability of this measuring method. The technology behind Osseo 100 is as simple as it is reliable: a MultiTipeg is screwed into an implant and magnetic waves emitted by the Osseo 100 handpiece cause the MultiTipeg to vibrate. The handpiece in turn measures the frequency of the vibration and translates it into an ISQ value between 1 and 99. The higher the ISQ value, the higher the implant stability. Values above 70 promise a very stable implant with extremely low micromobility. Typically, an implant is cleared for immediate loading at this value. Nevertheless, a second measurement is recommended before affixing the final restoration in order to verify the osseointegration again.

The MultiTiegs are made of durable titanium, which is

known to be gentle on the mucous membrane, and have sealed magnets, so they can be used several times and autoclaved at least 20 times. MultiTiegs are available for a wide

range of implant systems. Implant dentistry goes digital: the Osseo 100+ model transmits its measured values in real time via Bluetooth to the new Surgic Pro2 surgical motor and from there to any tablet computer. From there, the data can be sent by e-mail to a practice e-mail address, for example, and stored in the patient file. All the important data concerning the implant treatment is stored centrally in a file and can be viewed at any time afterwards. ◀

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part of the Japanese Nakanishi company, primarily known under the brand name NSK, a worldwide leading manufacturer of dental transmission instruments, prophylaxis devices, and innovative solutions for dental surgery and implantology. Osseo 100 perfectly complements NSK's product portfolio, as it is an uncomplicated, easy-to-use and affordable product, which thanks to its reusable MultiTiegs is also highly

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