How to extend your surgical viewing angle

Surgical drive instruments face anatomical limits when extracting wisdom teeth: The cheek obstructs straight handpieces in the case of small mouths, or the distal molar makes burr access difficult for contra-angle handpieces. In either case, the new surgical contra-angle handpieces from W&H offer an intelligent solution — even for wide apical tooth sectioning.

The dental handpieces WS-91 and WS-91LG combine the advantages of surgical straight and contra-angle handpieces for the first time ever (Fig. 1). The extended angle between the shank and burr axis allows good access to the tooth row both buccally and occlusally (Fig. 4). Displaced teeth can be comfortably sectioned (Figs. 6 and 7).

The dentist also has a significantly better view of the surgical site than with the instruments previously available.

Dr. Mario Kirste from Frankfurt/Oder had this to say, “If I turn the contra-angle handpiece head slightly, I can work particularly quickly and safely in the retromolar region. The instrument has the potential to reconcile the contrasting positions taken up by the users of straight and contra-angle handpieces.” (Figs. 2-5)

Power plus hygienic safety

The new contra-angle handpieces WS-91/WS-91LG are real powerhouses at the same time. Their transmission ratio of 1:2.7 results in a speed of up to 135,000 revolutions per minute. The key factor, however, is their high power combined with a surgical motor.

The contra-angle handpieces achieve an effective power of more than 2 Ncm on the working part of the burrs, making them almost three times as powerful as standard dental contra-angle handpieces combined with an electric dental motor.

Biologically necessary and hygienically safe cooling is also taken care of: An external triple spray cools the rotating instrument with a sterile saline solution. As with all dental handpieces from W&H, the surface of the new contra-angle handpieces is...
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scratch-resistant and therefore easy to clean. They can also be easily disassembled without tools, according to W&H.

**Successful balance**

Apical resection is another indication for the contra-angle handpieces WS-91/WS-91LG. The sophisticated geometry ensures excellent vision in cases involving maxillary molars and small mouths. In the WS-91LG, a mini LED+ also illuminates the operating area with daylight quality.

“The new contra-angle handpieces are a really successful balance. This amazing technical achievement by W&H extends my viewing angle and my options in routine surgery,” Kirste said.

‘If I turn the contra-angle handpiece head slightly, I can work particularly quickly and safely in the retromolar region.’