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TDC VELOCE

The next-generation high-speed cutter for EVA NEXUS

Part of

eva NEXUS

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The future of vitrectomy is at hand with TDC VELOCE, the next-generation high-speed cutter for EVA NEXUS that enables SMART IOP. TDC VELOCE unites performance, stability, control, and a new ergonomic design with increased shaft stiffness for ease of reaching the periphery and shaving the vitreous base. Along with smart NEXUS technology that responds to surgeon needs, TDC VELOCE brings the next generation of surgery within reach.

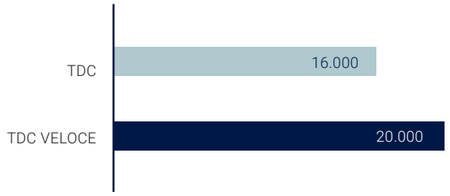
Performance

Improved aspiration flow

TDC VELOCE provides improved aspiration flow rates compared to the TDC cutter: +14% for 25G and +26% for 27G, resulting in reduced vitrectomy time.

Cut speed up to 20.000 CPM

The increased cut rate reduces tissue traction, while the TDC dual cutter design, harmoniously complemented by VacuFlow VTi fluidics, makes vitrectomy more efficient.



Stability

SMART IOP for posterior surgery

TDC VELOCE enables SMART IOP for posterior surgery, allowing EVA NEXUS to automatically compensate for pressure losses. It adjusts the irrigation/infusion pressure to maintain a constant IOP during surgery and improved stability during procedures.

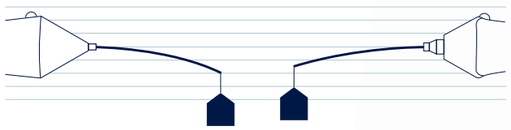
Working close to a mobile retina

TDC VELOCE provides stable flow rate at all cut speeds. Using Flow Mode of the EVA NEXUS VacuFlow VTi pump allows for precise aspiration and maximised control working close to a mobile retina.

Control

Increased stiffness

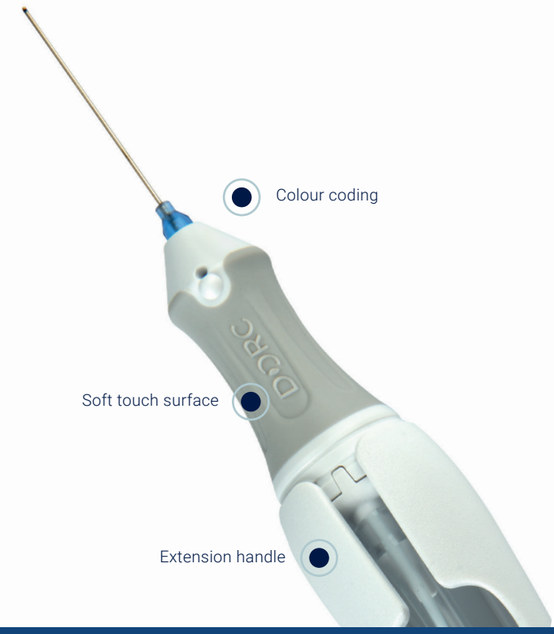
For ease of reaching the periphery and shaving the vitreous base, stiffness of the shaft had been increased for all gauges (23G, 25G and 27G).



TDC TDC VELOCE

New ergonomics

TDC VELOCE is equipped with a soft touch surface for comfortable grip, has a distal port indicator, and comes with a protective sleeve that can be used as an optional extension handle.



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Surgeons about
TDC VELOCE

Prof. Mitrofanis Pavlidis, Germany – TDC VELOCE co-developer

"TDC VELOCE has demonstrated a significant flow increase largely due to the optimized design of the architecture of the cutter. Furthermore, the 20.000 cuts per minute substantially contribute to this performance boost. As a result of evaluation of our data, and in my experience, 27G has reached the performance of 25G, and 25G is now comparable to 23G. Additionally, cutter rigidity has improved substantially. The 27G cutter feels like a 25G cutter in rigidity aspect."

Prof. Hideyasu Oh, Japan

"The innovative TDC VELOCE Cutter in combination with EVA NEXUS system enables us to perform core vitrectomy with stunning efficiency. With the aid of SMART IOP, shaving peripheral vitreous can be performed with high precision and with reduced risks.The newly designed cutter also provides increased comfort and improved stiffness."

Prof. Mario Romano, Italy

"I was very impressed by the TDC VELOCE in terms of stability, efficiency and control. The stiffness is increased compared to previous one. You can easily reach the periphery, so 27G even for the retinal detachment works very well. With the 20.000 CPM I have good control of the traction. I can have a good flow at the same time, because with the Flow control I can set 20cc per minute and 12cc per minute with 25G and 27G, keeping the aspiration between 300 and 400 mmHg. So very low aspiration, and you still have a good outflow."

Learn more

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** The EVA NEXUS output can be controlled up to a maximum frequency of 10.000 cycles per minute. The maximum cutting speed of the pneumatic high speed vitrectome is effectively doubled to 20k CPM when a two-dimensional cutting vitrectome, like TDC VELOCE is used.*