

VERTICALE[®] – PEDICLE-/ ILIAC- SCREWS

dia. 8.2 mm, 9.2 mm and 10.2 mm

ADDITIONAL PRODUCT INFORMATION FOR VERTICALE

INSTRUMENTATION GUIDE D30000



MADE IN GERMANY

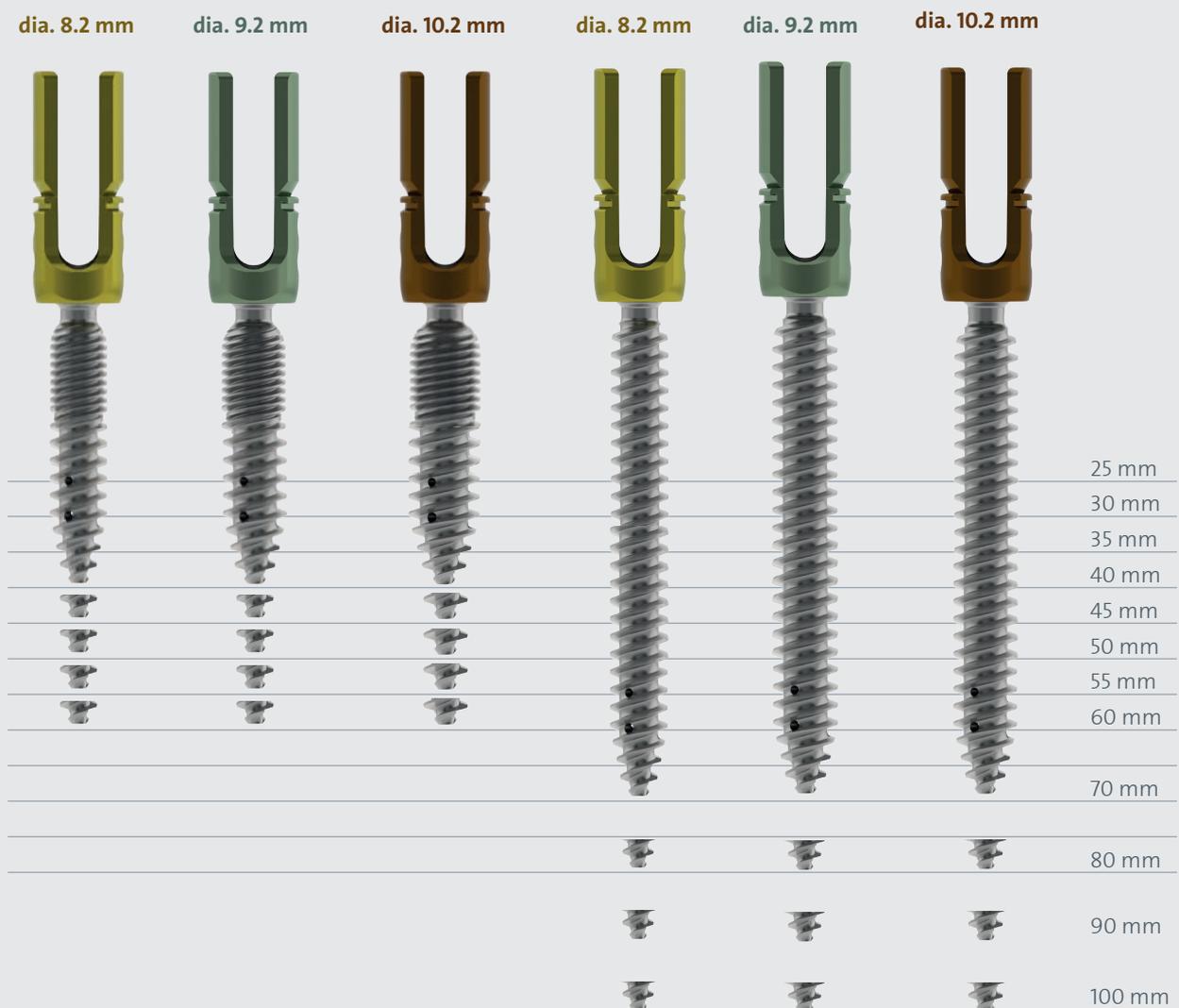
Introduction

During the use of large diameter screws, large insertion torques may be required, which may have an effect on the stability and usability of the instruments used, in particular the screw driver. This information intends to highlight important aspects for insertion and retrieval of large diameter screws in order to help prevent potential insertion or retrieval issues. It needs to be considered as additional information in relation to the general surgical technique for the Verticale system, D30000.h.EN.

Silony offers a very comprehensive portfolio of for spinal surgery, including large diameter screws with diameters 8.2, 9.2 and 10.2 mm, and lengths ranging from 40 mm to 100 mm.

These screws have been specifically designed for indications that include large pedicle and iliac fixations or revision of screws. The large diameter screws feature a similar type of thread as offered in the range of Silony screws with smaller diameters, and also feature self-tapping and cannulated end to help insertion.

Large diameter screws typically require a larger insertion torque when compared to similar screws of a smaller diameter. As a result, during insertion the forces on the connection between the screw and insertion instrument may run high, adding the risk that the connection will fail due to failure of material or parts of the instrument and/or the screw head.



Preparation and Retrieval

Tapping thread

As a result, it is highly recommended to tap a thread before inserting the large diameter screws, as is also recommended for smaller diameter screws. In case a screw is already partially inserted and the surgeon estimates that loads are getting high for the encountered circumstances, it is highly recommended to retrieve the screw with the instrument VI-1445 [Verticale T25 Screwdriver Shaft] or VI-1446 [Verticale T25 SD Shaft bullet head], tap thread additionally, and re-insert the screws with the standard screw inserter VI-1130. If needed, select an alternative, most optimal size screw for those circumstances.

Retrieval of the Large Diameter Screws

In case the surgeon needs to retrieve a large diameter screw, the instruments VI-1445 [Verticale T25 Screwdriver Shaft] or VI-1446 [Verticale T25 SD Shaft bullet head] are preferred. These instruments are specifically designed for this purpose and their connection with the screw is able to withstand a considerable higher torque.

Please note that these instruments do not provide mechanical stability in its connection to the screw, like the standard screw driver VI-1130 does, and is therefore optimal for retrieval of large diameter screws.

Handles

The use of the t-handles (i.e. GI-1TRK, GI-TOK, GI-2111 or GI-2101) is not recommended, because t-handles in general are able to transfer a high torque without providing the sometimes necessary tactile feedback about the actual height of the torque applied.

During insertion of the screws, it is highly recommended to use the straight or drop shaped handle types, please refer to the following overview:

Article number	Description	Illustration
GI-1LRK	Ratchet Handl cannulated	
GI-1L0K	Handl cannulated	
GI-1DRK	Ratchet Drop Handl cannulated	
GI-1D0K	Trop Handl cannulated	
GI-2311	Ratchet Palm Handl, short	
GI-2301	Palm Handl, short	

Summary

Silony large diameter screws offer a great option for large pedicle or ilium fixation, as well as revision screws. This info emphasizes the optimal use of these screws in combination with its particularly designed instruments, which will enable surgeon to treat their patients in extreme cases to the highest standards.

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