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brochure

SAFER FOR SURE

TRO-VEBSITE safety

Directive 2010/32/EU



NEEDLE-STICK INJURIES AS AN OCCUPATIONAL HAZARD

NEW TECHNOLOGY MINIMISES RISK

With its Directive 2010/32, the EU is following a clear line with regard to the most common occupational injuries in medical practices and hospitals. The directive principally addresses the issue of accidental injury to patients, medical professionals and other staff by used needles. By making it compulsory to use products with integrated safety systems, the risk of injury is lowered significantly.

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With its innovative product TRO-VENSITE safety, Troge Medical offers a state-of-the-art system that sets new standards as a result of its complexity and user-friendliness.

In addition to the health risks associated with injuries from infected needles, the resulting burden on those bearing the costs should also be considered. With an estimated 500,000 needle-stick injuries per year in Germany, the loss of working hours for necessary check-ups equates to more than €70 million.

This figure does not even take into account the treatment costs or possible follow-up costs for any infections that may result. In individual cases, these may reach six or seven figures.

Particularly in situations such as the fast-paced environment of an accident and emergency department or in the ambulance service, safety systems have been compulsory for some time. This new directive now extends employers' duty of care to the entire clinical environment.

In addition to minimising the risk to medical personnel, the use of safety systems also minimises injuries to cleaning staff that may result from the improper disposal of contaminated needles. The danger is particularly significant here as cleaning staff often do not have basic medical training.

ABSOLUTE SAFETY

PATIENTS AND USERS BENEFIT WITH TROGE

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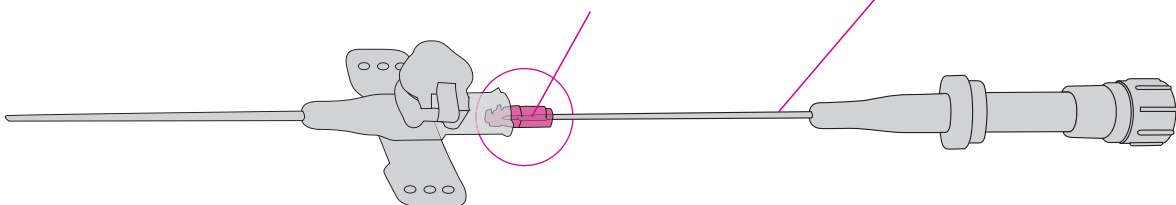
The key feature of TRO-VENTSITE safety is our innovative new safety clip. In contrast to many similar systems, this clip is completely integrated and guarantees that you will be able to use the product as usual. After establishing vascular access, the user gets a clear notification that the safety clip is clicking into place. At this point, the needle is surrounded by

a plastic locking mechanism, which reduces the risk of injury to a minimum. Although the product must still be disposed of in a sharps box, there are always situations when there isn't an appropriate disposal box to hand – by using our system, the associated risks are eliminated almost completely.

IV cannula with integrated safety clip corresponding to the requirements of EU Directive 2010/32

Safety clip clicks into place

Steel needle is removed after puncture



Precision bevelled edge

EXTREME SHARPNESS

THE NEEDLE THAT ADAPTS TO YOUR NEEDS



05

TRO-VENSITE safety is characterised by one thing above all – you don't have to change anything about the way you use it! Like our other products, this new system also features an ergonomically perfect design and the familiar needle design with triple-facet bevel. Our tried-and-tested laser-controlled production machines ensure precise sharpness and thus guarantee exceptional ease of use. Our safety needles also feature the Troge-specific bevel angle, which does not place any constraints on how it is inserted and only requires a minimum of effort. This means that users do not have to adjust their techniques to the angle of the needle, rather the needle adapts to their specific puncture method.

Thanks to the unique bevel angle, the angle of insertion can range from 4° to 32°.



PERFECT HANDLING

UTMOST SAFETY THROUGH DESIGN

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Design follows function: the TRO-VENSITE safety system lives up to this characteristic of successful design in every respect. As a result, we are one of the few manufacturers to integrate the automatic safety system completely into the needle, without any perceptible gradations. Users therefore do not notice any difference in terms of insertion technique – handling stays the same and no specific user training sessions are required.

In addition to increased convenience for the patient, the system's ease of use also reliably avoids droplets of blood when the needle is removed. This also represents a major safety benefit and embodies our philosophy of providing the exceptional ease of use with absolute safety.

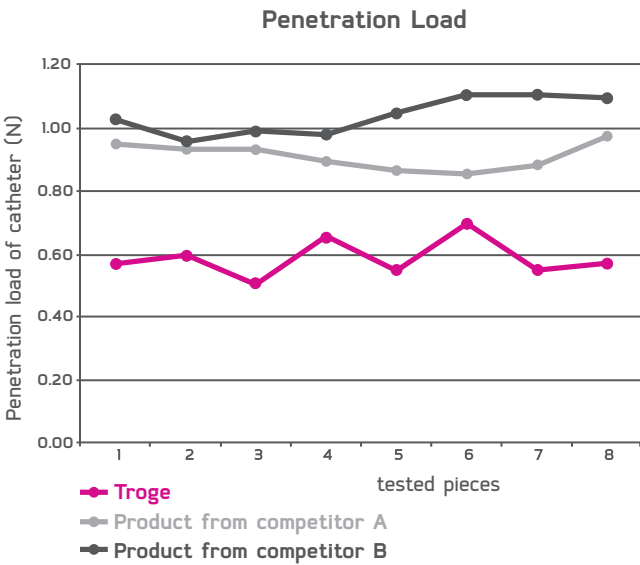
The optional injection port can be opened and closed with just one finger. Not only is this more hygienic, it also makes working with patients even easier.

ENORMOUS FREEDOM OF USE










POLYURETHANE OR TEFLON – THE SITUATION DECIDES



TRO-VENSITE-safety-systems are available in Polyurethane or Teflon, depending on what the user prefers. The PUR cannulas adapt better to patients' veins thanks to their flexibility, but the properties of the material require more care and attention on the part of the user when inserting the catheter. By contrast, the smoother surface structure of Teflon makes the insertion process much gentler. Thus, the user always has a suitable material for every situation. However, regardless of whether a medical professional prefers PUR or Teflon, TRO-VENSITE safety always offers the ideal system for the task at hand.












TRO-SENSITE safety

Size (Gauge)	Length of catheter (mm)	Outer diameter (mm)	Colour code		Average flow rate (ml/min)	Article/Ref. No. FEP	Article/Ref. No. PUR
14 G	45	2.0	orange		275 – 351	90241	90203
16 G	45	1.7	grey		180 – 230	90242	90204
17 G	45	1.5	white		128 – 163	90243	90205
18 G	32	1.3	green		86 – 109	90244	90206
18 G	45	1.3	green		86 – 109	90245	90207
20 G	32	1.1	pink		59 – 75	90246	90208
22 G	25	0.9	blue		29 – 45	90247	90209
24 G	19	0.7	yellow		18 – 28	90248	90210
26 G	19	0.6	violet		14 – 21	90249	90211












TRO-SENSITE safety plus

Size (Gauge)	Length of catheter (mm)	Outer diameter (mm)	Colour code		Average flow rate (ml/min)	Article/Ref. No. FEP	Article/Ref. No. PUR
14 G	45	2.0	orange		275 – 351	90250	90220
16 G	45	1.7	grey		180 – 230	90251	90221
17 G	45	1.5	white		128 – 163	90252	90222
18 G	32	1.3	green		86 – 109	90253	90224
18 G	45	1.3	green		86 – 109	90254	90223
20 G	32	1.1	pink		59 – 75	90255	90225
22 G	25	0.9	blue		29 – 45	90256	90226
24 G	19	0.7	yellow		18 – 28	90257	90227
26 G	19	0.6	violet		14 – 21	90258	90228












TRO-SENSITE safety sine

Size (Gauge)	Length of catheter (mm)	Outer diameter (mm)	Colour code		Average flow rate (ml/min)	Article/Ref. No. FEP	Article/Ref. No. PUR
14 G	45	2.0	orange		275 – 351	90270	90230
16 G	45	1.7	grey		180 – 230	90271	90231
17 G	45	1.5	white		128 – 163	90272	90232
18 G	32	1.3	green		86 – 109	90273	90234
18 G	45	1.3	green		86 – 109	90274	90233
20 G	32	1.1	pink		59 – 75	90275	90235
22 G	25	0.9	blue		29 – 45	90276	90236
24 G	19	0.7	yellow		18 – 28	90277	90237
26 G	19	0.6	violet		14 – 21	90278	90238



TRO-SENSITE safety pen

Size (Gauge)	Length of catheter (mm)	Outer diameter (mm)	Colour code		Average flow rate (ml/min)	Article/Ref. No. FEP	Article/Ref. No. PUR
14 G	45	2.0	orange		275 – 351	90260	N/A
16 G	45	1.7	grey		180 – 230	90261	N/A
17 G	45	1.5	white		128 – 163	90262	N/A
18 G	32	1.3	green		86 – 109	90263	N/A
18 G	45	1.3	green		86 – 109	90264	N/A
20 G	32	1.1	pink		59 – 75	90265	N/A
22 G	25	0.9	blue		29 – 45	90266	N/A
24 G	19	0.7	yellow		18 – 28	90267	N/A
26 G	19	0.6	violet		14 – 21	90268	N/A



CARING FOR GLOBAL HEALTH

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