

IsoCord® I-125

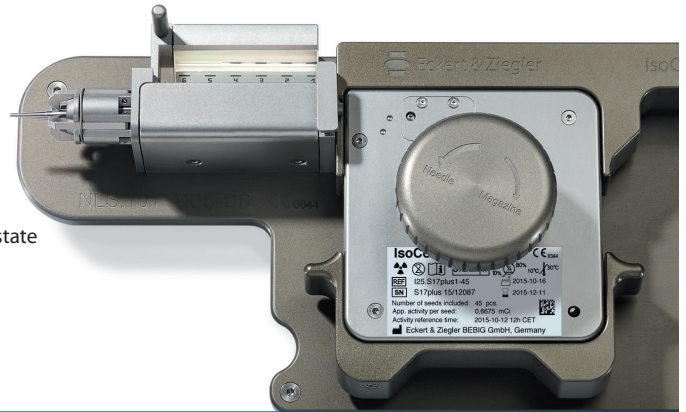
Stranded Seeds in Unique Radiation Protection Magazines

IsoCord® I-125

I-125 seed chain with special design for reliable fixation within prostate tissue.



Prostate



Strand cutting and needle loading are safe and fast with the IsoCord® Needle Loading Station.

IsoCord® - Innovative I-125 Seed Chain

IsoCord® seed chains (strands) contain IsoSeed® I-125 seeds and hourglass-shaped spacers in standard seed-spacer configuration, enclosed in a braided monofilament suture. IsoCord® strands are delivered in shielded magazines containing up to 70 seeds.

Good Visibility

IsoCord® is available in two different designs: IsoSeed® I25.S17plus and I25.S06. Both sealed source models are visible under X-ray, fluoroscopy, CT and MR and additionally show good ultrasound visibility.

- IsoSeed® I25.S17plus features a full silver marker and has been designed for visibility under X-ray and fluoroscopic imaging. In addition, it enables MR imaging and opens new perspectives for postoperative planning.
- IsoSeed® I25.S06 contains a thin gold marker within a ceramic carrier, diminishing artifacts and providing good visibility in CT imaging.

Low Migration Rates

One advantage of strands is their low migration rate. IsoCord® strands are specially designed to reduce the migration rates still further. The structured surface of the braided suture as well as the unique hourglass-shaped spacers provide reliable fixation of the IsoCord® strand in prostate tissue.

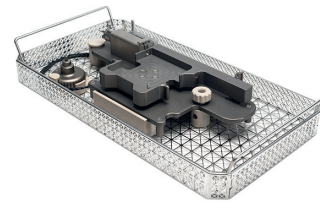
Strand Cutting and Needle Loading – Safe and Fast

With the help of the unique Needle Loading Station, IsoCord® strands are cut into any required length according to the treatment plan. Strand cutting is safe and convenient and takes place under full radiation protection. The IsoCord® Needle Loading Station permits direct loading of the implantation needles in three simple steps avoiding the need to handle strands manually.

IsoCord® Accessories

Accessories include:

- The sterilization cassette to protect and prevent loss of delicate instruments. It is ideal for steam sterilization.



- The needle rack to provide safe storage of loaded needles and reduced radiation exposure.
- The transfer tube for needle post-loading.

On Time Delivery and Reliable Service

Due to its localization in the heart of Europe and intelligent stock management, Eckert & Ziegler BEBIG is able to provide its wide range of products quickly and reliably worldwide, allowing flexible patient scheduling.

Eckert & Ziegler BEBIG staff are available to its customers for all questions related to seed implantation. Additionally, Eckert & Ziegler BEBIG offers full installation to hospitals, including treatment planning systems, ultrasound scanners and a complete range of accessories.

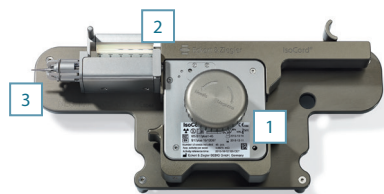
"Made in Germany" Quality

Eckert & Ziegler BEBIG's IsoCord® strands and Needle Loading Station are manufactured in Berlin, Germany, and fulfill the highest quality standards for physicians, physicists and patients. Each IsoCord® magazine is individually checked and subject to final inspection prior to delivery.

IsoCord® I-125

IsoCord® Needle Loading Station (NLS)

In just three steps, the IsoCord® strand is cut into the desired length, loaded into the needle and is ready for implantation. All these steps are performed under full radiation protection.



IsoCord® Needle Loading Station

1 Define your desired IsoCord® strand length

IsoCord® strands come in shielded magazines that are inserted into the NLS. By turning the knob, the desired strand length is advanced from the magazine into the viewer where a lighted mirror enables the operator to check the number and position of the seeds.

2 Cut the IsoCord® strand

The strand is cut into its desired length by pushing the integrated cutting unit. The user is not exposed to any radiation.

3 Load the strand into the needle

The strand is pushed into the attached needle with an integrated mandril. With a simple “click”, the needle is released from the Needle Loading Station and is ready for implantation.

Components and Accessories

Qty.	Item	Part number
1	IsoCord® Needle Loading Station	NLS.101
1	IsoCord® Sterilization Tray for Needle Loading Station	NLZ.100
1	IsoCord® NLS Screw Driver	NLZ.101
1	IsoCord® Waste Container for Seeds	NLZ.102
1	IsoCord® Tweezers	NLZ.103
1	IsoCord® Scissor	NLZ.104
1	IsoCord® NLS Power Supply	NLZ.105
1	Power Cable for NLZ.105	NLZ.106
1	IsoCord® Needle Rack	NLZ.107
1	IsoCord® Supply Cable for NLS Lighting Unit, sterilizable	NLZ.110
1	IsoCord® Transfer Tube	NLZ.112

IsoCord and IsoSeed are registered trademarks of Eckert & Ziegler BEBIG GmbH and its subsidiaries.

The mentioned products are not available in all markets. Please contact your local Eckert & Ziegler BEBIG representative for more information.

Class number	Air kerma strength in $\mu\text{Gy m}^2/\text{h}$	Apparent activity in mCi	Apparent activity in MBq
1	0.391 – 0.423	0.308 – 0.333	11.40 – 12.32
2	0.424 – 0.459	0.334 – 0.361	12.36 – 13.36
3	0.460 – 0.498	0.362 – 0.392	13.39 – 14.50
4	0.499 – 0.540	0.393 – 0.425	14.54 – 15.73
5	0.541 – 0.586	0.426 – 0.461	15.76 – 17.06
6	0.587 – 0.637	0.462 – 0.501	17.09 – 18.54
7	0.638 – 0.690	0.502 – 0.543	18.57 – 20.09
8	0.691 – 0.749	0.544 – 0.590	20.13 – 21.83
9	0.750 – 0.813	0.591 – 0.640	21.87 – 23.68
10	0.814 – 0.882	0.641 – 0.694	23.72 – 25.68
11	0.883 – 0.958	0.695 – 0.754	25.72 – 27.90
12	0.959 – 1.039	0.755 – 0.818	27.94 – 30.27
13	1.040 – 1.127	0.819 – 0.887	30.30 – 32.82
14	1.128 – 1.223	0.888 – 0.963	32.86 – 35.63

Activity classes IsoSeed® I25.S17plus for Prostate Cancer Treatment

Class number	Air kerma strength in $\mu\text{Gy m}^2/\text{h}$	Apparent activity in mCi	Apparent activity in MBq
1	0.357 – 0.386	0.281 – 0.304	10.38 – 11.26
2	0.387 – 0.419	0.305 – 0.330	11.27 – 12.21
3	0.420 – 0.455	0.331 – 0.358	12.22 – 13.25
4	0.456 – 0.493	0.359 – 0.388	13.26 – 14.38
5	0.494 – 0.535	0.389 – 0.421	14.39 – 15.61
6	0.536 – 0.581	0.422 – 0.457	15.62 – 16.94
7	0.582 – 0.630	0.458 – 0.496	16.95 – 18.38
8	0.631 – 0.684	0.497 – 0.539	18.39 – 19.94
9	0.685 – 0.742	0.540 – 0.584	19.95 – 21.64
10	0.743 – 0.806	0.585 – 0.634	21.65 – 23.48
11	0.807 – 0.874	0.635 – 0.688	23.49 – 25.48
12	0.875 – 0.949	0.689 – 0.747	25.49 – 27.65
13	0.950 – 1.029	0.748 – 0.811	27.66 – 30.00
14	1.030 – 1.117	0.812 – 0.880	30.01 – 32.56

Activity classes IsoSeed® I25.S06 for Prostate Cancer Treatment

The number of seeds per magazine is limited by the given maximum activity for “accepted packaging” shipments.

The activity of IsoSeed® decreases by one class every week.

The reference day for the declaration of the certified apparent activity is always a Monday.

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