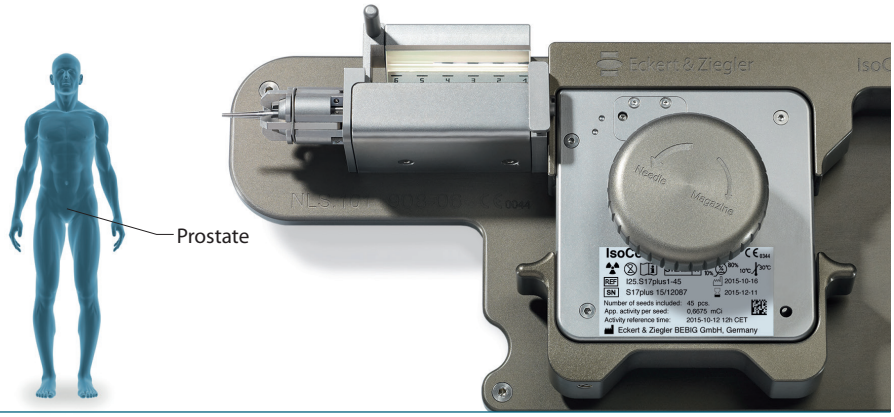
IsoCord® I-125

Stranded Seeds in Unique Radiation Protection Magazines



IsoCord® I-125

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

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.

On Time Delivery

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.

Reliable & Competent Service

Eckert & Ziegler BEBIG is a complete brachytherapy provider whose staff consists of renowned application specialists and service technicians, supported by an extensive network of medical experts. 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

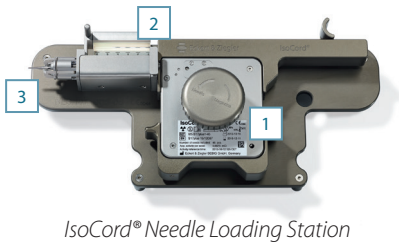
Eckert & Ziegler BEBIG´s IsoCord® strands and Needle Loading Station are manufactured in Berlin, Germany, and fulfill the highest quality standards for physicians, physicists and patients. Each IsoCord® magazine is individually checked and subject to final inspection prior to delivery.

Eckert & Ziegler
Contributing to saving lives

IsoCord® I-125

IsoCord® Needle Loading Station (NLS)

Eckert & Ziegler BEBIG´s unique Needle Loading Station with integrated radiation shielding permits safe and fast strand cutting and needle loading. 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 a integrated mandril. With a simple "click", the needle is released from the Needle Loading Station and is ready for implantation.

Class number	Air kerma strength in µGy m2/h	Apparent activity in mCi	Apparent activity in MBq
-5	0.240 – 0.259	0.189 – 0.204	6.99 – 7.55
-4	0.260 – 0.281	0.205 – 0.221	7.59 – 8.18
-3	0.282 – 0.305	0.222 – 0.240	8.21 – 8.88
-2	0.306 – 0.330	0.241 – 0.260	8.92 – 9.62
-1	0.331 – 0.358	0.261 – 0.282	9.66 – 10.43
0	0.359 – 0.390	0.283 – 0.307	10.47 – 11.36
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 µGy m2/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.
Ordering number: I25.S17plus1-XX
I25.S061-XX

Corporate Head Office:

Eckert & Ziegler
BEBIG SA
Rue Jules Bordet
Zone Industrielle C
7180 Seneffe
Belgium

Phone +32 64 520 811
Fax +32 64 520 801
info@bebig.com

Manufacturer:

Eckert & Ziegler
BEBIG GmbH
Robert-Rössle-Str. 10

13125 Berlin
Germany

Phone +49 30 94 10 84 130
Fax +49 30 94 10 84 112
info@bebig.com

Regional Sales, Marketing and Service:

Europe, Middle East, Africa, Latin America, Asia Pacific

Eckert & Ziegler
BEBIG SA
Rue Jules Bordet
Zone Industrielle C
7180 Seneffe
Belgium

Phone +32 64 520 811
Fax +32 64 520 801
info@bebig.com

North America

Mick Radio-Nuclear Instruments, Inc.
An Eckert & Ziegler BEBIG Company
521 Homestead Avenue

Mount Vernon, NY 10550
USA

Phone +1 914 667 3999
Fax +1 914 665 8834
sales@micknuclear.com

www.bebig.com
www.micknuclear.com

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