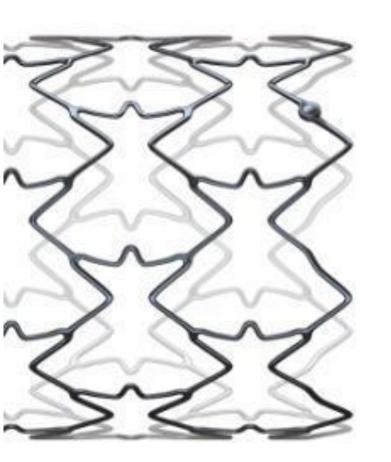


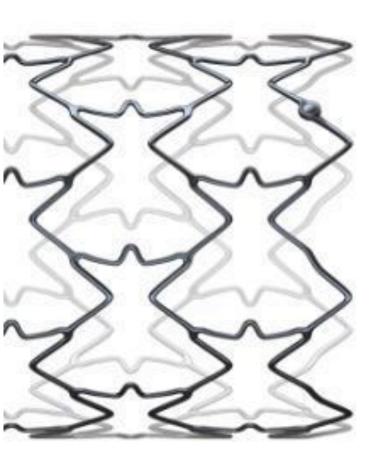
CoCr Balloon Expandable Stent for Iliac Arteries

DS - 2018





- Uniform increased radial force and excellent scaffolding with a unique cell architecture, ideal for calcified lesions.
- Platinum markers with no stent foreshortening allow unmatched placement accuracy and visualization as needed in iliac stenting.
- **6F introducer sheath compatibility for all sizes** due to the state of the art technology applied on both stent and balloon catheter.
- Proven biocompatibility enabled by the Bio Inducer Surface coating accelerating the rate of endothelialization and strut coverage, reducing the thrombogenity.



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Homogeneous scaffolding:

Isthmus Logic is available in 2 stent designs to offer a homogeneous performance in term of geometry of the expanded cell, radial force and vessel coverage from 6 mm to 10 mm

Nominal Diameter [mm]	N. of cells per circunference	Strut thickness [micron]	
6 – 8	8 cells	175	
9 - 10	9 cells	175	







Homogeneous scaffolding versus post-dilatation:

Isthmus Logic can be post-dilated to the final diameters listed below without changes in mechanical properties (i.e. radial force, scaffolding).

Nominal Diameter [mm]	N. of cells per circunference		Max diameter in post-dilatation [mm]
6 – 8	8 cells	175	9
9-10	9 cells	175	11

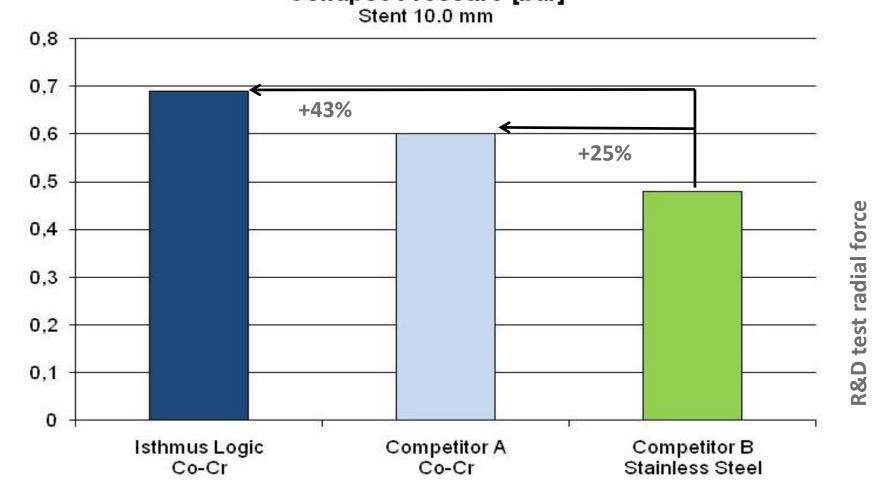
Other competitors give the maximum "theoretical" expansion in which the stent does not break, but the stent loses its mechanical performance in overexpanded configuration.



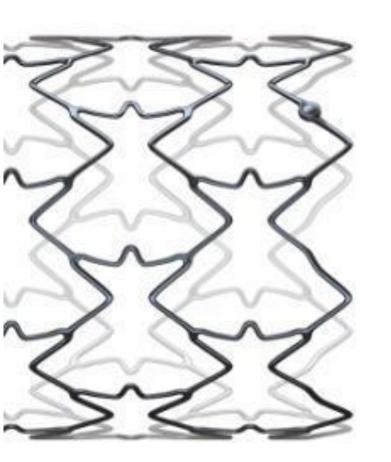


Alvimedica

Homogeneous scaffolding and Radial Strenght:

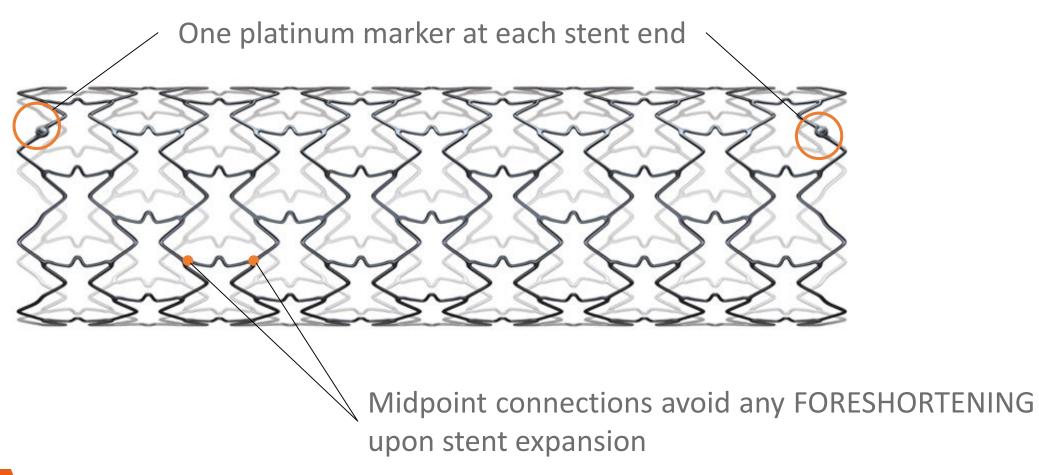


Collapse Pressure [bar]



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Radiopaque markers & No foreshortening:







BE Iliac Stents are generically selected, due to theirs features, in situations like:

- Ostial implants (to Aorta)
- Kissing stent (for Aorto-iliac bifurcations)
- Focal lesion





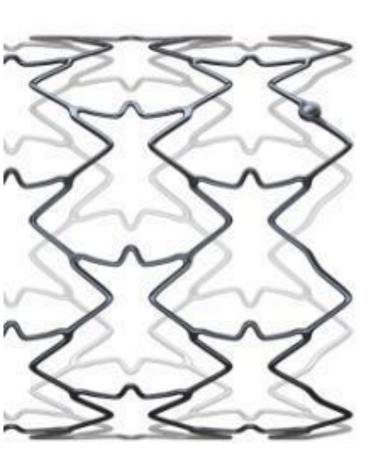
The 2 platinum markers, located at both stent ends, provide exceptional visibility and contribute to guarantee perfect placement in particular @ the ostium of the iliac artery.



Once the stent is correctly positioned, the flexible links connected to the mid point of the sinusoids **allow ZERO fore shortening upon expansion** preserving the original stent length.







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stent struts: nus Logic flexibility bas

Strut Section

Cobalt

Chromium

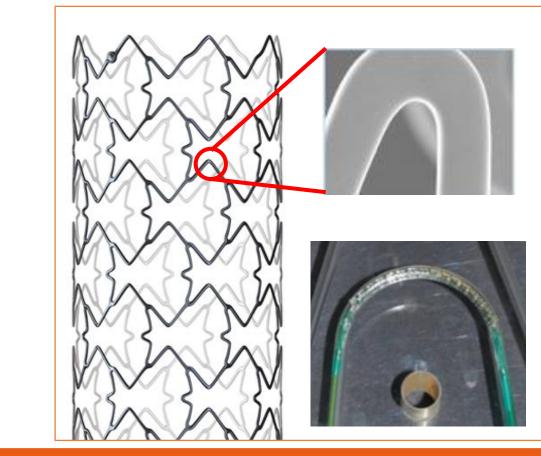
Strut

thickness

micro

Insthmus Logic flexibility has been increased thanks to the design and the reduction of the stent thickness to 175 micron.

CoCr stent struts:

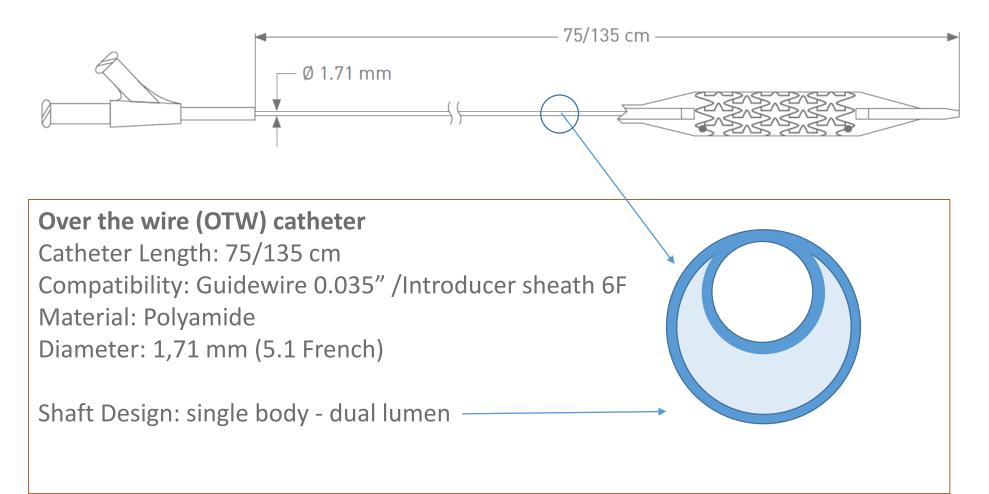




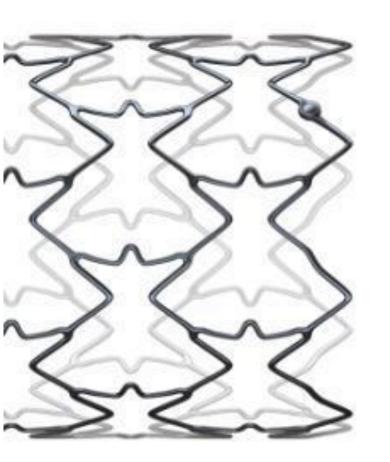


Isthmus Logic

Delivery system





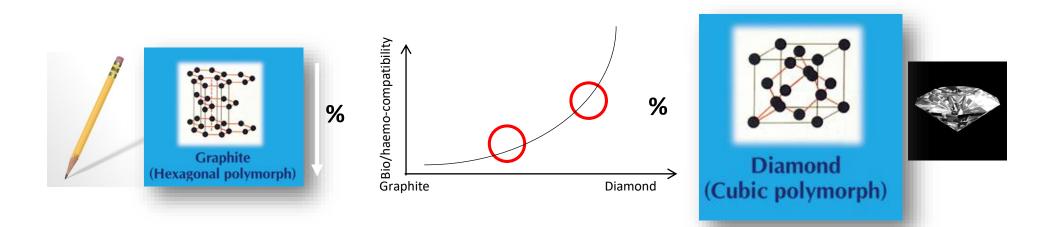


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The Bio Inducer Surface (BIS)

This 2nd generation pure carbon coating (≤0.3 μm) brings the crystalline structure closer to diamond structure with a further improvement of its bio/haemo compatibility

The Bio-Inducer Surface is made of pure carbon atoms

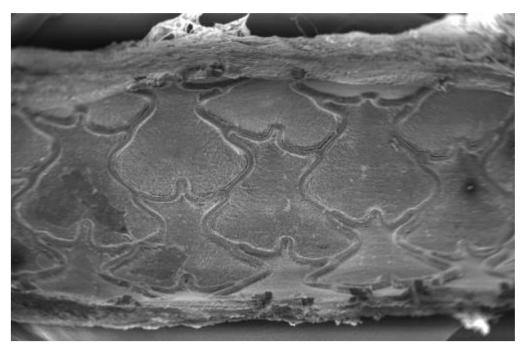




The Bio Inducer Surface (BIS)

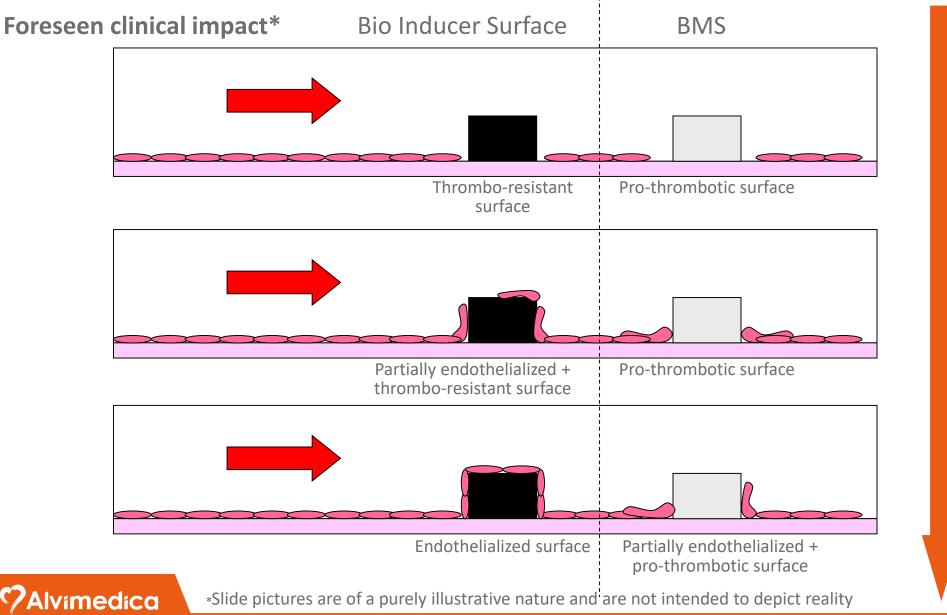
Iliac artery stenosis are mainly located in the ostial segment and have a high rate of restenosis due the characteristics of the lesion (extremely calcified) and due the blood flow turbulences present in the segment where the iliac artery is located.

The positive contribution of the Bio Inducer Surface coating features should reduce the restenosis rate.





The Bio Inducer Surface (BIS)



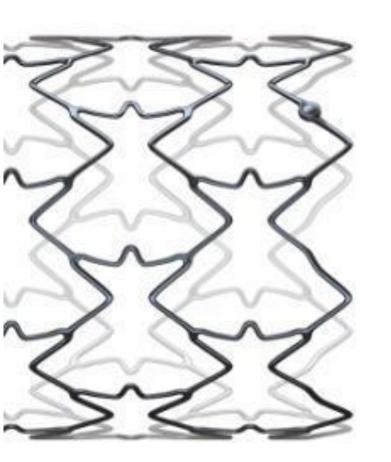


Time

Day 0

Day 3

Day 7



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Product specifications

PERIPHERAL STENT			
Stent Diameters:	6 - 10 mm		
Stent Lenghts:	19 - 59 mm		
Stent material:	L605 CoCr alloy		
Strut surface coating:	Bio Inducer Surface		
2 platinum radiopaque markers at stent ends			
No stent foreshortening upon expansion			
DEVICE SPECIFICATIONS			
Over The Wire (OTW)			
Introducer sheath compatibility:	6F		
Guidewire compatibility:	0.035"		
Usable Catheter Lenght - UCL:	75 & 135 cm		
Nominal Pressure:	7 - 8 atm		
Rated Burst Pressure:	10 - 12 atm		



Available codes

ORDER INFORMATION ISTHMUS LOGIC

USABLE CATHETER LENGTH 75 CM

Ø (mm)	19	29	39	49	59
6.0	ICLC6019S	ICLC6029S	ICLC6039S		
7.0	ICLC7019S	ICLC70295	ICLC70395	ICLC7049S	ICLC7059S
8.0	ICLC8019S	ICLC80295	ICLC8039S	ICLC8049S	ICLC8059S
9.0	ICLC9019S	ICLC90295	ICLC90395	ICLC9049S	ICLC9059S
10.0	ICLC100195	ICLC100295	ICLC100395		

USABLE CATHETER LENGTH 135 CM

Ø (mm)	19	29	39	49	59
6.0	ICLC6019L	ICLC6029L	ICLC6039L		
7.0	ICLC7019L	ICLC7029L	ICLC7039L	ICLC7049L	ICLC7059L
8.0	ICLC8019L	ICLC8029L	ICLC8039L	ICLC8049L	ICLC8059L
9.0	ICLC9019L	ICLC9029L	ICLC9039L	ICLC9049L	ICLC9059L
10.0	ICLC10019L	ICLC10029L	ICLC10039L		



Clinical Focus

The Clinical Focus has the objective to present how challenging cases have been treated by recognized European KOLs with the implantation of Isthmus Logic stents in order to show the benefits this device can bring to patients.



Clinical Focus

The best feedbacks we can have about Isthmus Logic comes from the users:



Isthmus Logic balloon expandable stent offers a good scaffolding and with one marker at each end allows a precise positioning. This stent is also offering a unique technology of the Bio Inducer Surface, a pure carbon coating, reducing thrombogenicity and increasing Endothelization.

Common iliac arteries repair needs balloon expendable stents with good profile, high radial forces, good trackability. Isthmus Logic cobalt-chrome stents are 6F compatible for all sizes and combined all these avantages to achieve endovascular treatment of common iliac arteries plus a Bio Inducer Surface technology reducing thrombogenicity.



Prof. Yann Gouëffic



Clinical Focus



Dr. Rutger Brans

The Isthmus Logic balloon expandable stent is a well designed stent which offers adequate radial forces to overcome severe and calcified iliac stenosis. The stents can be placed very accurately without unwanted shortening and have good visualization on fluoroscopy due the radiopaque markers on both ends, all essential characteristics for stents, especially in procedures like bilateral common iliac stenting. The carbon coating reduces the risk of restonosis and facilitate in long lasting patency.

The 10 mm diameter Isthmus Logic stent is compatible with a 6 Fr introducer, which contributes in reducing the risk of puncture site-related haemorrhagic events and discharging the patient within the same day. In our experience Isthmus Logic stent has an accurate deployment with no foreshortening and provides sufficient radial force for the treatment of severe iliac atheromatic disease.



Prof. Dimitris Karnabatidis





www.alvimedica.com