



# Inperia Advance

*BIS Coated CoCr BMS for BTK  
Indications*

*DS - 2018*

# Inperia Advance



Inperia Advance

CoCr Stent

Delivery System

BIS coating

# Inperia Advance

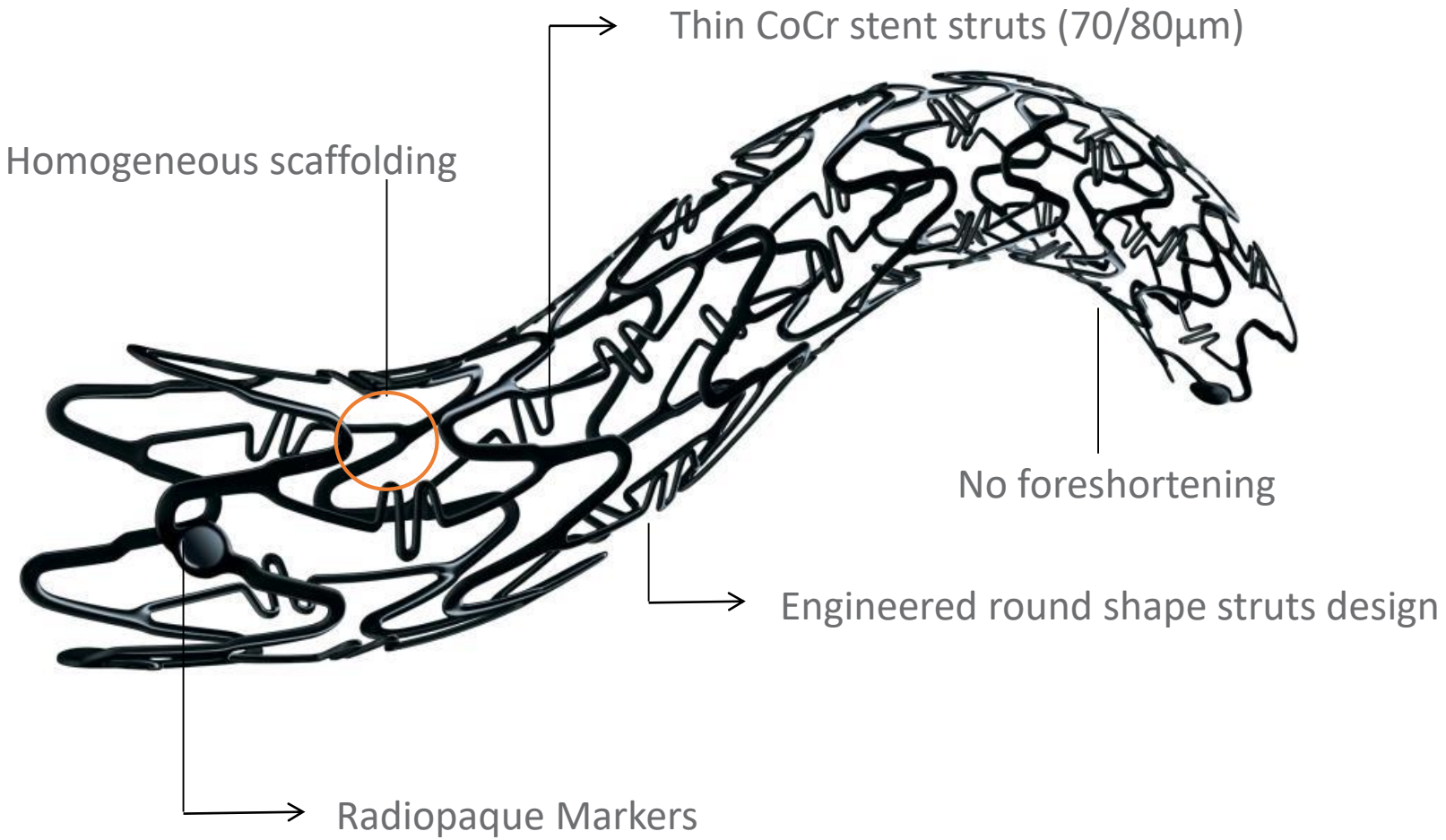
Inperia Advance

CoCr Stent

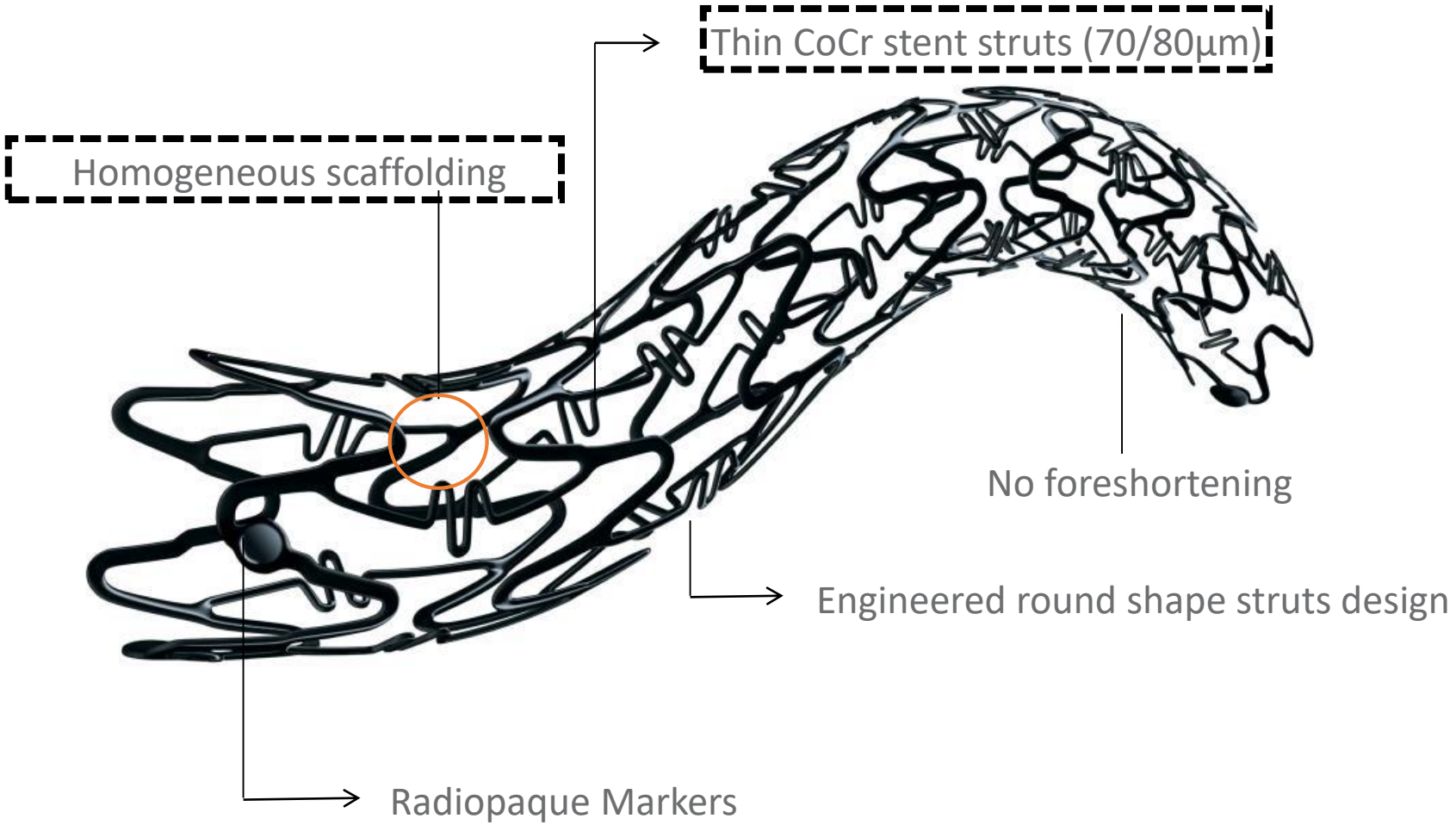
Delivery System

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# Inperia Advance



# Inperia Advance



# Inperia Advance

## Homogeneous scaffolding:

Inperia Advance is available in 3 stent designs to offer a homogeneous performance in term of geometry of the expanded cell, radial force and vessel coverage from 2,25mm to 4,50mm

Nominal Diameter [mm]	N. of cells per circumference	Strut thickness [microns]	Design
2,25 – 2,75	4 cells	70	Small vessel
3,00 – 3,50	5 cells	80	Work horse
4,00 – 4,50	6 cells	80	Large vessel

# Inperia Advance



## Homogeneous scaffolding versus side branch-ability:

The unique cell design permits an optimal scaffold of the stented vessel also in presence of «important» side branch:

Nominal Diameter [mm]	N. of cells per circumference	Strut thickness [microns]	Maximum Cell expansion for Side Branch Access* [mm]
2,25 – 2,75	4 cells	70	2,75
3,00 – 3,50	5 cells	80	3,50
4,00 – 4,50	6 cells	80	3,80

The side branch can reach a diameter that has a 1:1 ratio with the diameter of the main vessel ( $2,25\text{mm} \leq \text{Inperia Advance} \leq 3,50\text{mm}$ ).

# Inperia Advance



## Homogeneous scaffolding versus post dilation:

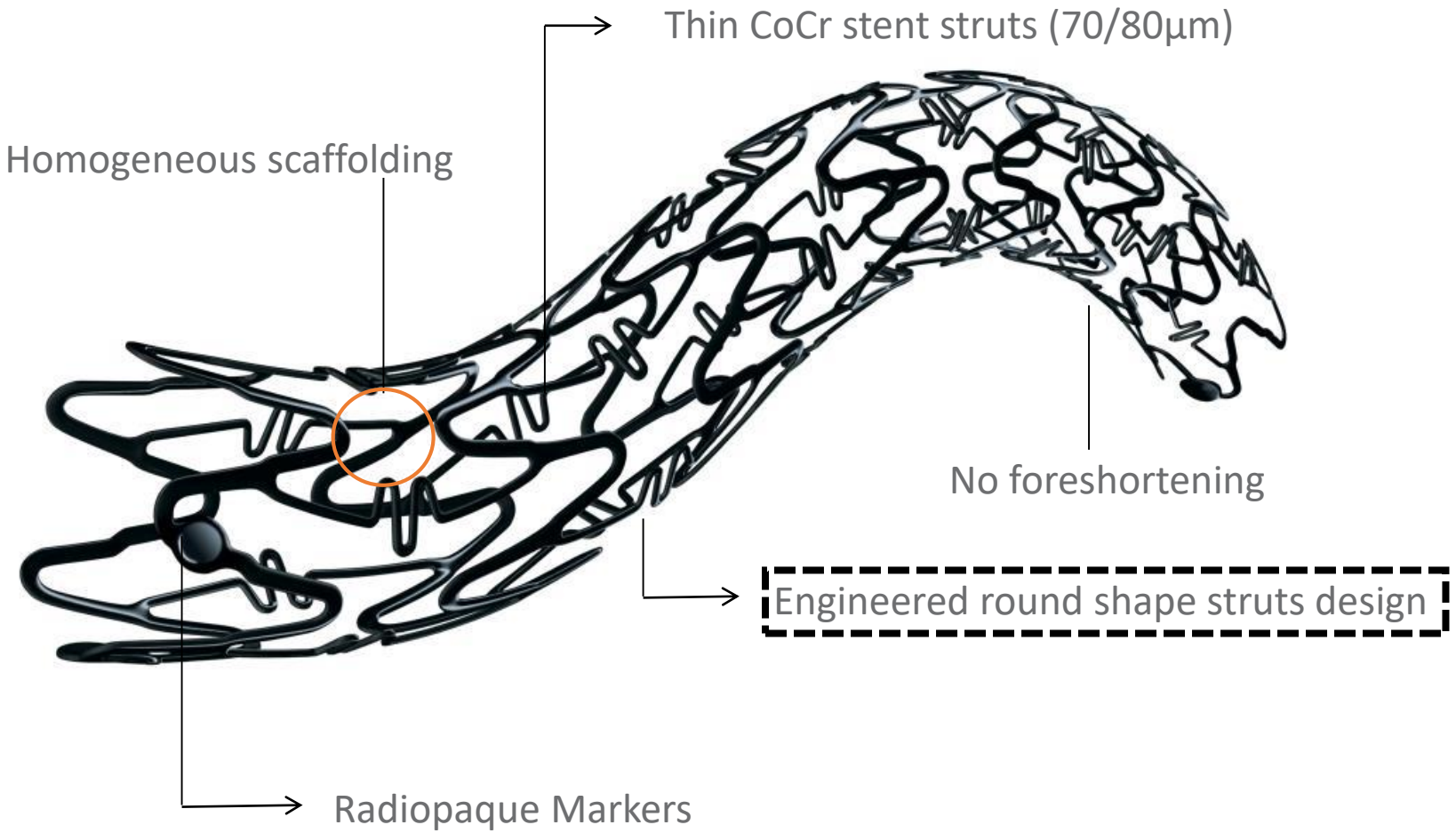
Inperia Advance can be post-dilated to the final diameters listed below without changes in mechanical properties (i.e. radial force, scaffolding).

Nominal Diameter [mm]	N. of cells per circumference	Strut thickness [microns]	Max diameter in post-dilatation [mm]
2,25	4 cells	70	2,55
2,50 – 2,75	4 cells	70	3,05
3,00 – 3,50	5 cells	80	3,85
4,00 – 4,50	6 cells	80	5,05

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

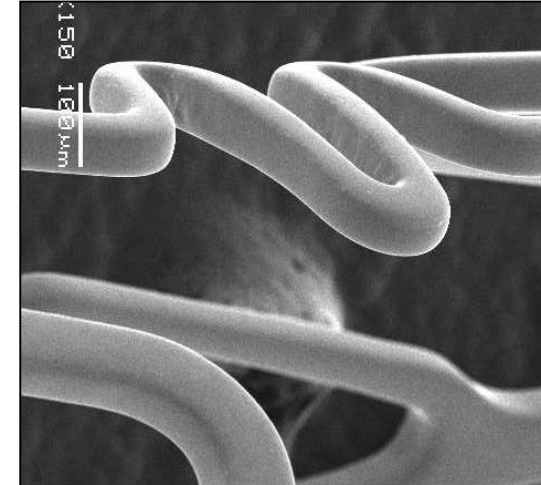
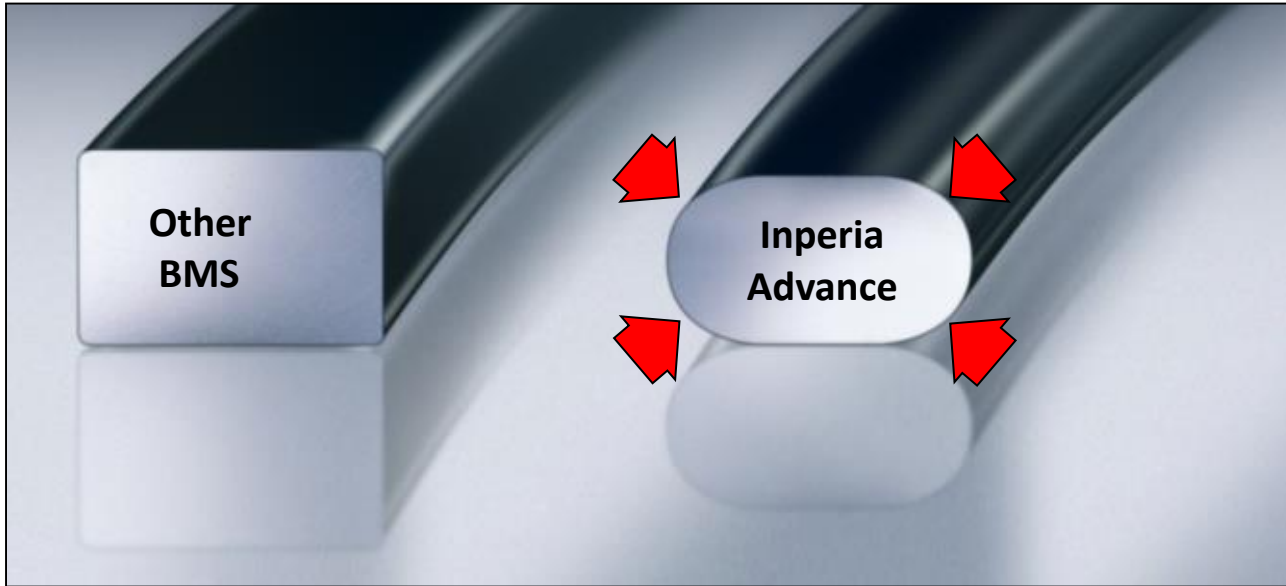


# Inperia Advance



# Inperia Advance

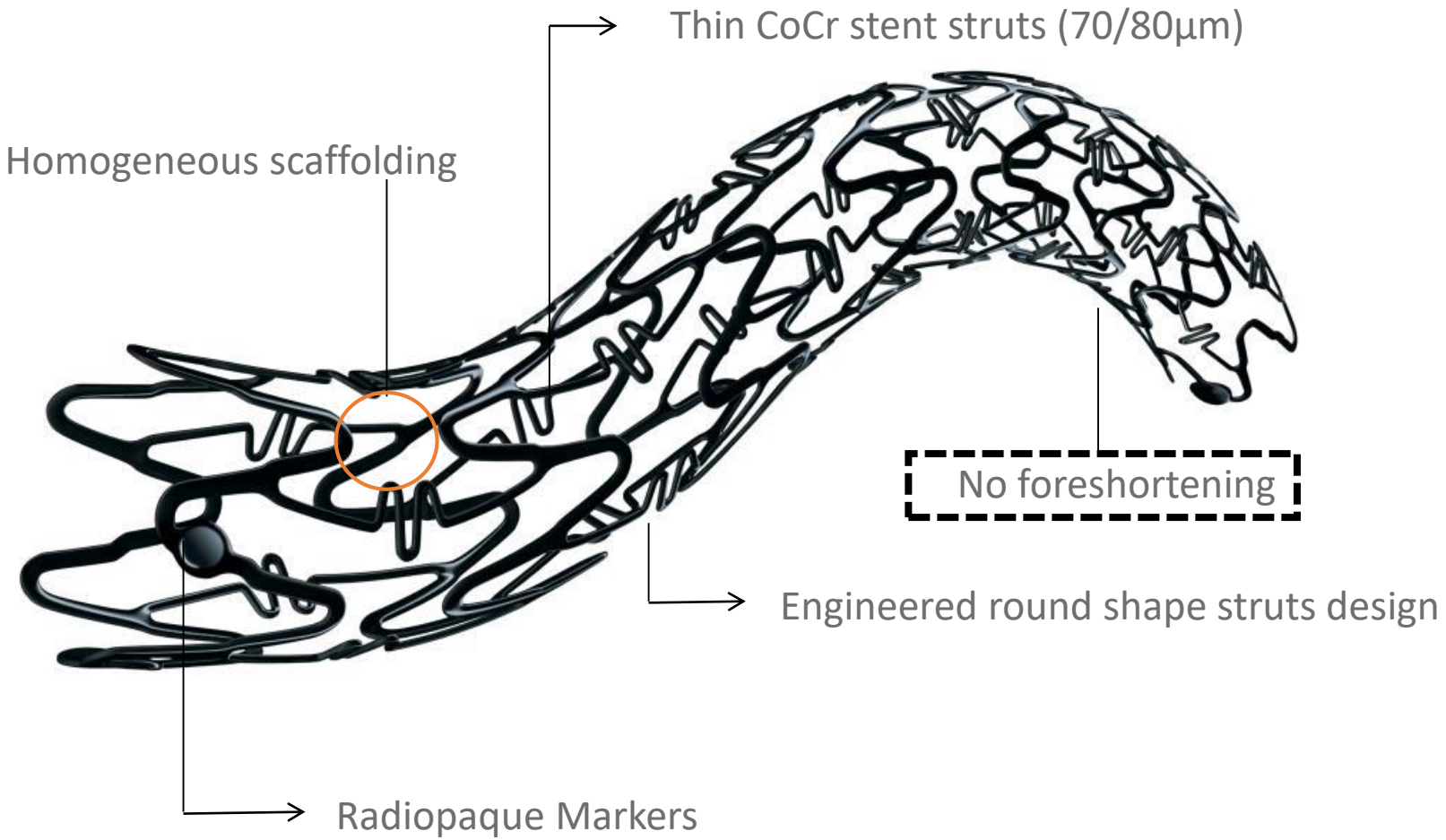
## Engineered round shape struts design



Newly engineered stent struts improve blood flow dynamics and reduce total stent volume

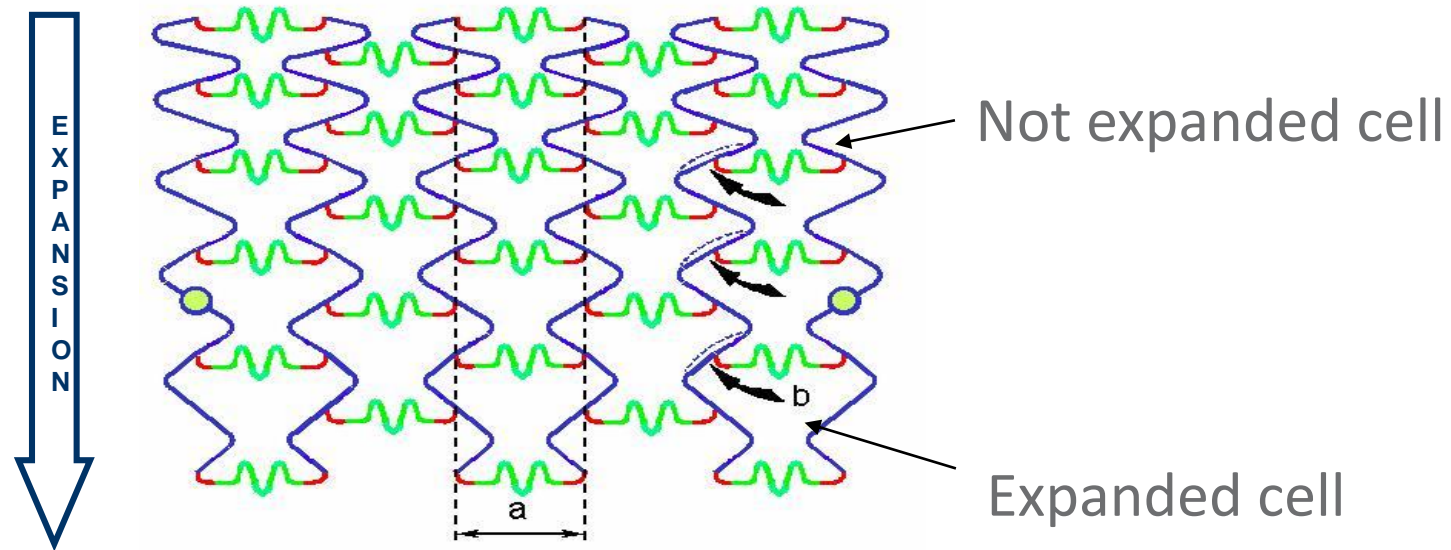
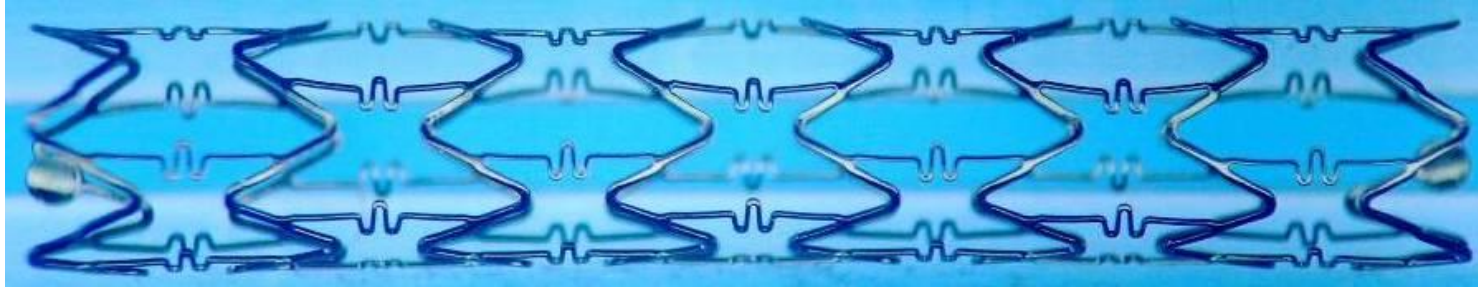


# Inperia Advance

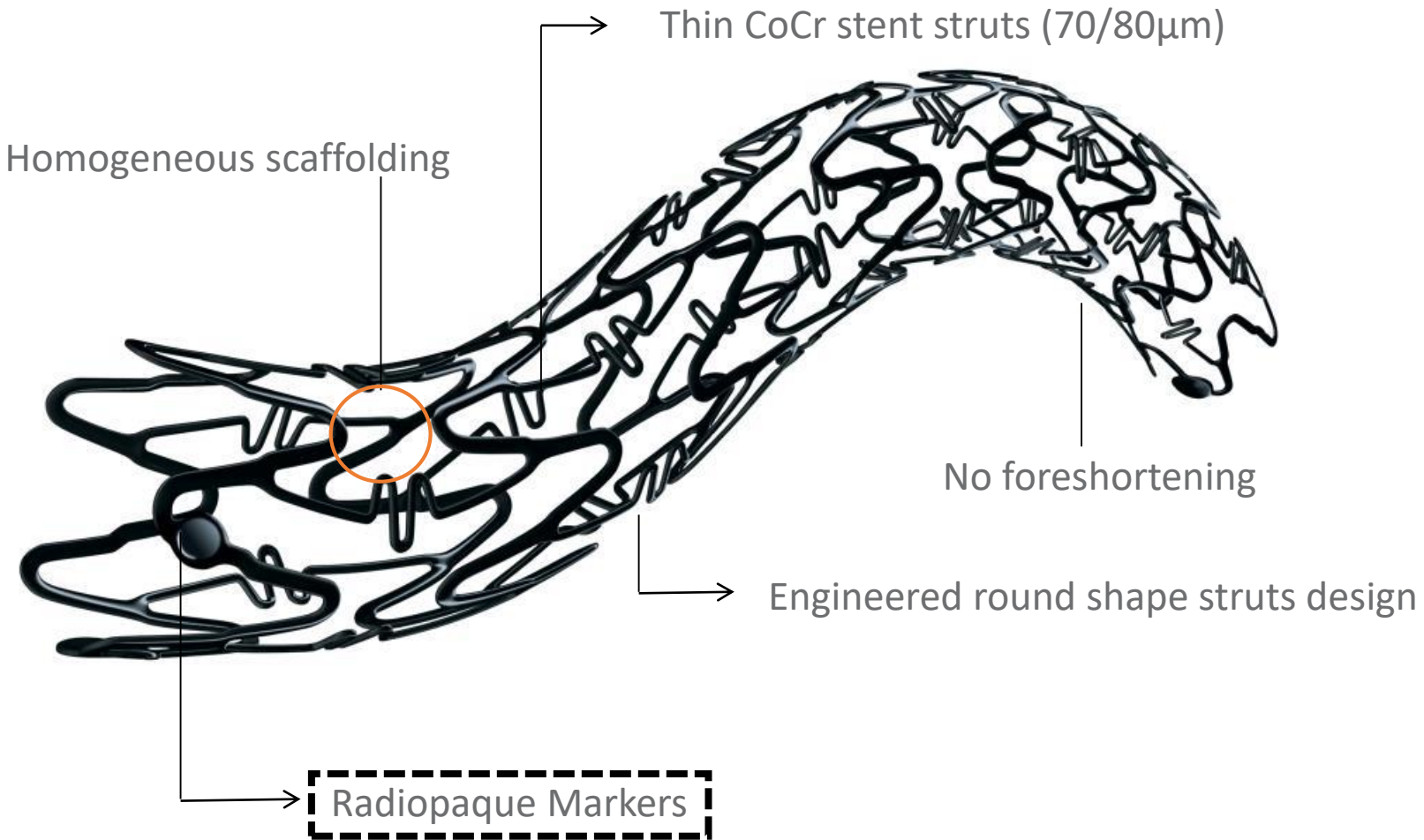


# Inperia Advance

No stent foreshortening

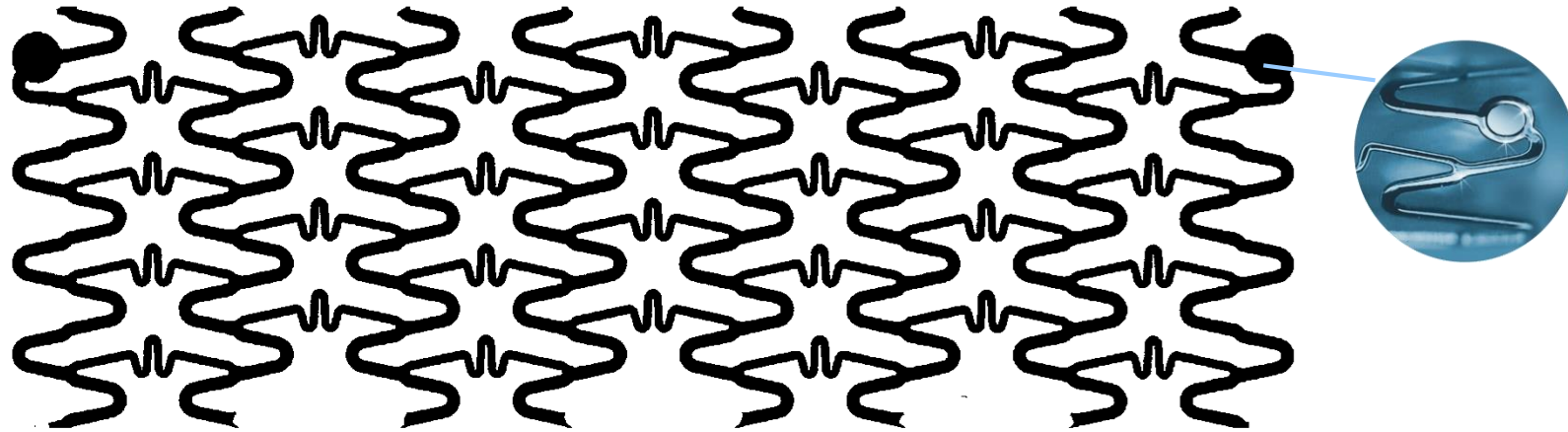


# Inperia Advance



# Inperia Advance

## Radiopaque Markers



Inperia Advance has highly visible radiopaque markers in Platinum:

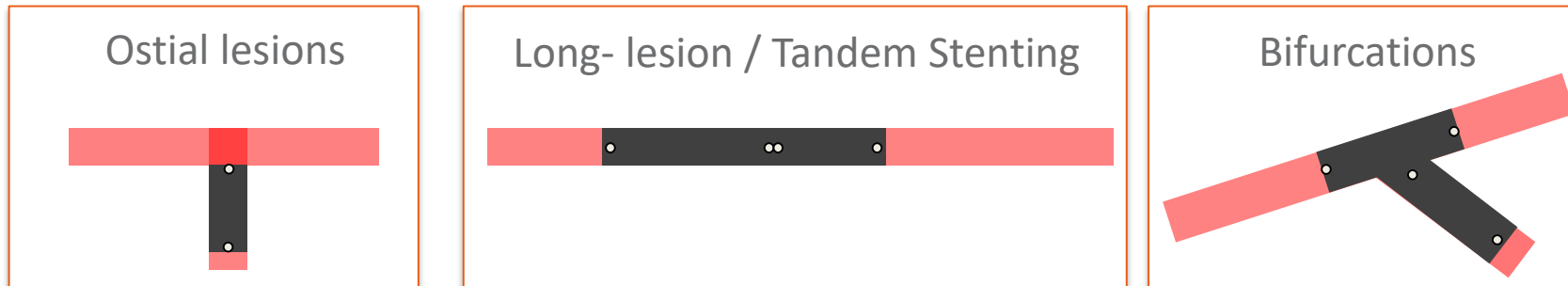
1 at each end of the stent

The stent with the markers is integrally coated by BIS

# Inperia Advance

No foreshortening + Radiopaque Markers = Precise implant

A precise positioning, thanks to the stent markers and no stent foreshortening, reduces the risk of thrombosis and persistent restenosis



# Inperia Advance



Inperia Advance

CoCr Stent

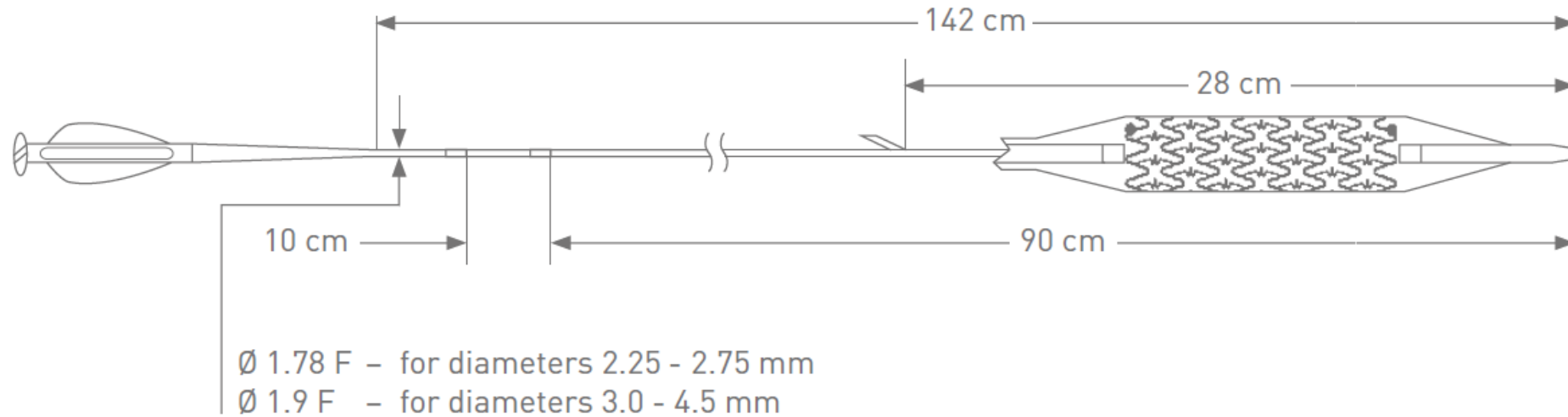
Delivery System

BIS coating



# Inperia Advance

## Delivery system design



### Rapid exchange (RX) catheter

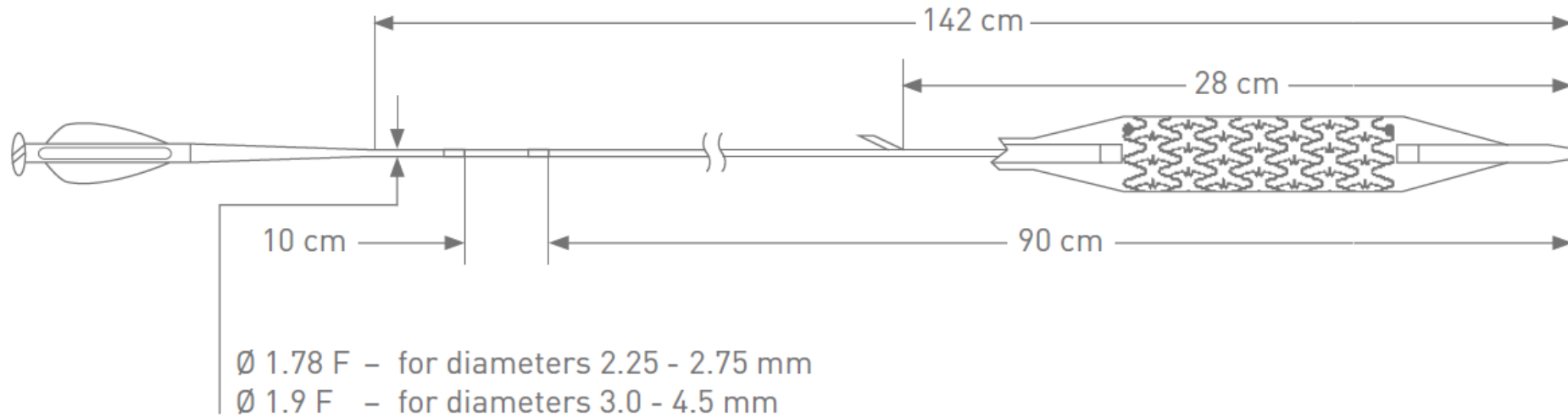
Catheter Length: 142 cm

Compatibility: Guidewire 0.014" / Guiding Catheter 5F

Brachial and Femoral Markers: 90 and 100 cm

# Inperia Advance

## Delivery system design



### Proximal Shaft

Material: Stainless Steel Hypotube

Coating: PTFE

Diameter: 1,78F – 1,9F

Length: 114 cm

### Distal Shaft

Material: Polyamide

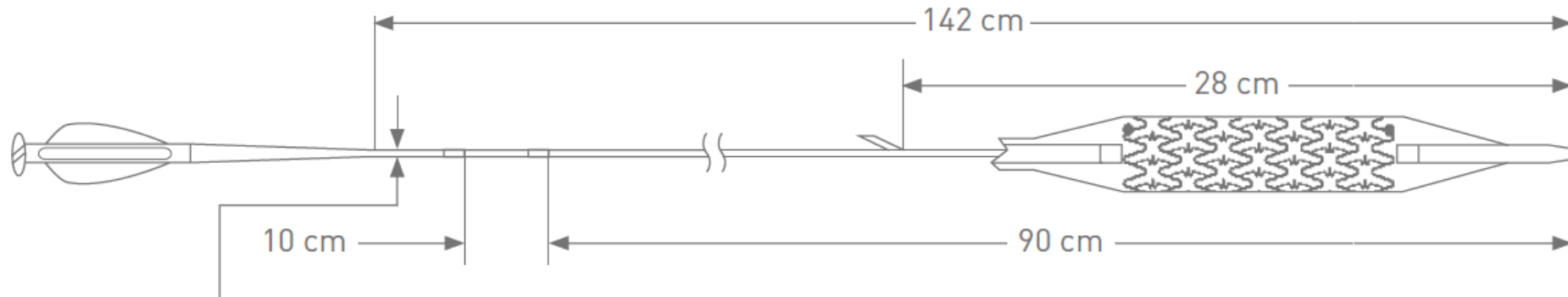
Diameter: 0,89 mm (2.7 French)

Length: 28 cm

Coating: Hydrophilic coating “Comfort Coat™”

# Inperia Advance

## Optimize delivery system



### Distal/Proximal Shaft

Avantgarde from 2.25 to 2.75 mm

#### Distal shaft:

Progressively flexible material with a fixed diameter



- For small and tortuous vessels

#### Proximal shaft:

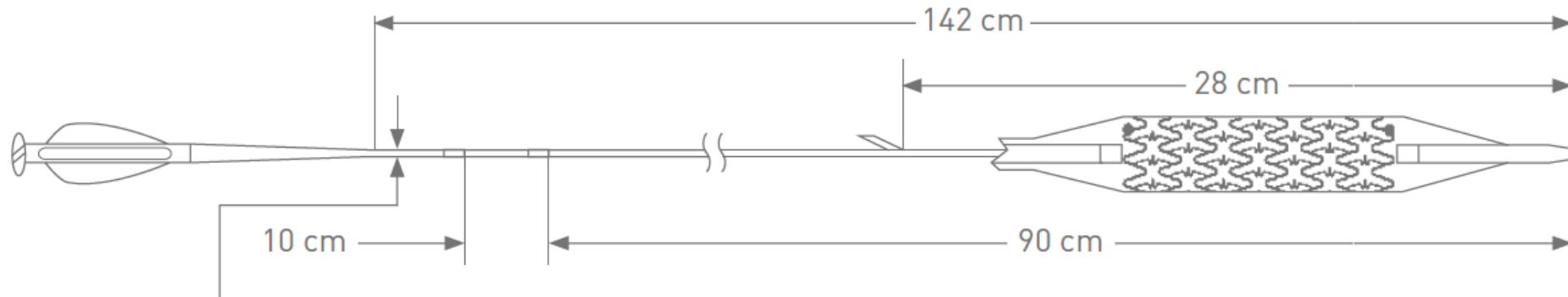
Reduced hypotube diameter

1.78F

- Increased flexibility

# Inperia Advance

## Optimize delivery system



### Distal/Proximal Shaft

Avantgarde from 3.0 to 4.5 mm

#### Distal shaft:

Progressively tapered tube



- For increased pushability

#### Proximal shaft:

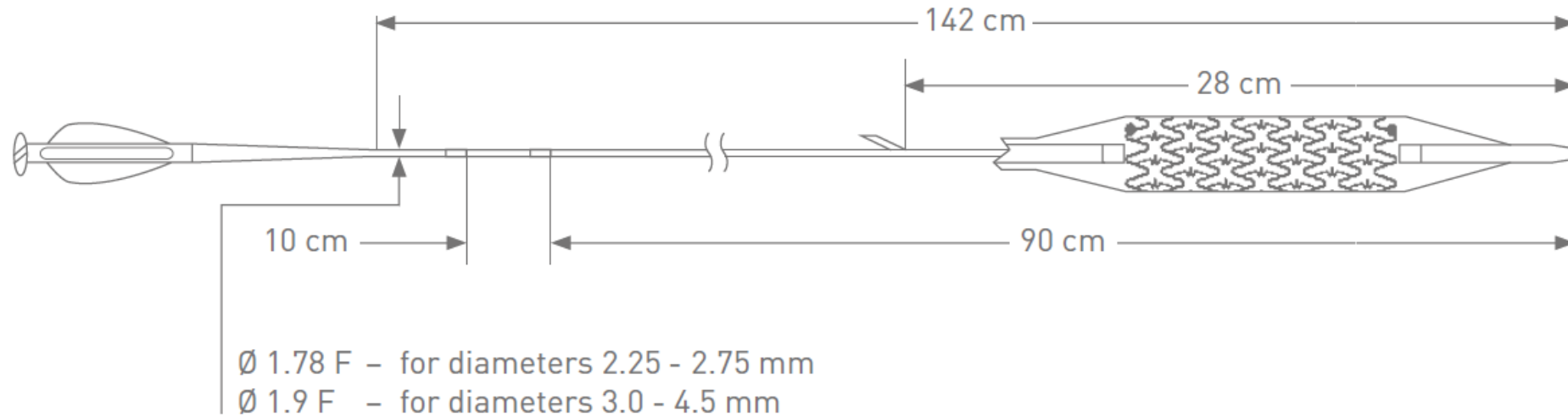
Optimized hypotube diameter

1.9F

- Faster deflation time

# Inperia Advance

## Delivery system design



### Balloon Characteristics:

Tip Material: Pebax

Material: Polyamide

Rated Burst Pressure RBP: 18 atm

Radiopaque markers: 2 ring markers

Entry Profile: 0.017"

Nominal Pressure NP: 9 atm

Average Burst Pressure ABP: 24 atm

# Inperia Advance

## Crossing profile

Inperia Advance has a very low crossing profile:

Nominal Diameter [mm]	N. of cells per circumference	Strut thickness [microns]	Crossing profile [mm] / ["]
2,25	4 cells	70	0,91 / 0,036
2,50	4 cells	70	0,91 / 0,036
2,75	4 cells	70	0,94 / 0,037
3,00	5 cells	80	0,97 / 0,038
3,50	5 cells	80	1,04 / 0,041
4,00	6 cells	80	1,11 / 0,043
4,50	6 cells	80	1,11 / 0,043

# Inperia Advance



Inperia Advance

CoCr Stent

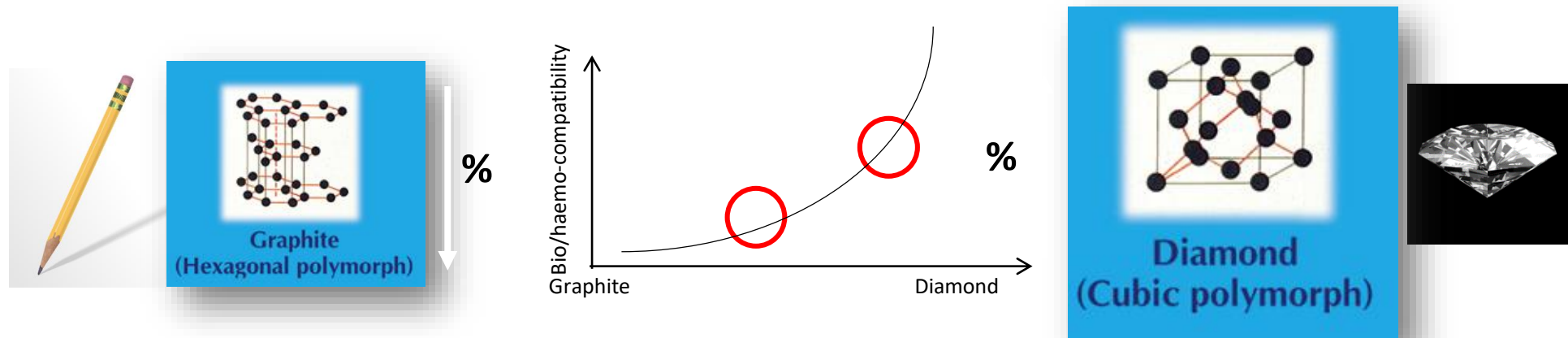
Delivery System

BIS coating

# The Bio Inducer Surface (BIS)

This 2<sup>nd</sup> generation pure carbon coating ( $\leq 0.3 \mu\text{m}$ ) brings the crystalline structure closer to the diamond structure with a further improvement of its bio/haemo compatibility

The Bio-Inducer Surface is made of pure carbon atoms



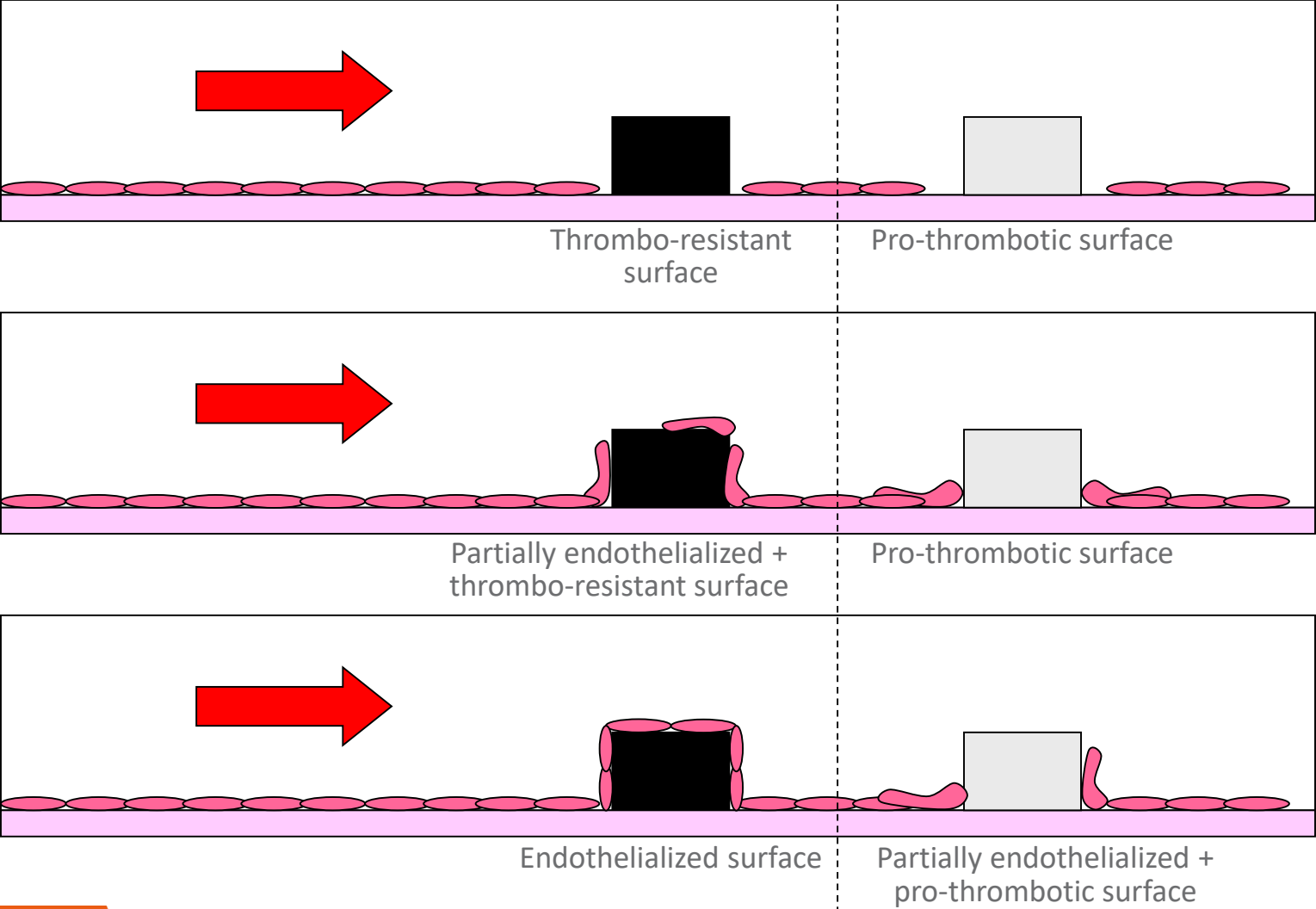


# The Bio Inducer Surface (BIS)

Foreseen clinical impact\*

Bio Inducer Surface

BMS



Time

Day 0

Day 3

Day 7

\*Slide pictures are of a purely illustrative nature and are not intended to depict reality

# Inperia Advance



## ORDER INFORMATION INPERIA ADVANCE

$\varnothing$ (mm) \ L (mm)	7	8	12	16	20	24	25	31
2.25	ICIC22507		ICIC22512	ICIC22516	ICIC22520	ICIC22524		
2.50		ICIC2508	ICIC2512	ICIC2516	ICIC2520		ICIC2525	
2.75		ICIC27508	ICIC27512	ICIC27516	ICIC27520		ICIC27525	
3.00		ICIC3008	ICIC3012	ICIC3016	ICIC3020		ICIC3025	ICIC3031
3.50		ICIC3508	ICIC3512	ICIC3516	ICIC3520		ICIC3525	ICIC3531
4.00		ICIC4008	ICIC4012	ICIC4016	ICIC4020		ICIC4025	ICIC4031
4.50			ICIC4512	ICIC4516	ICIC4520		ICIC4525	ICIC4531

