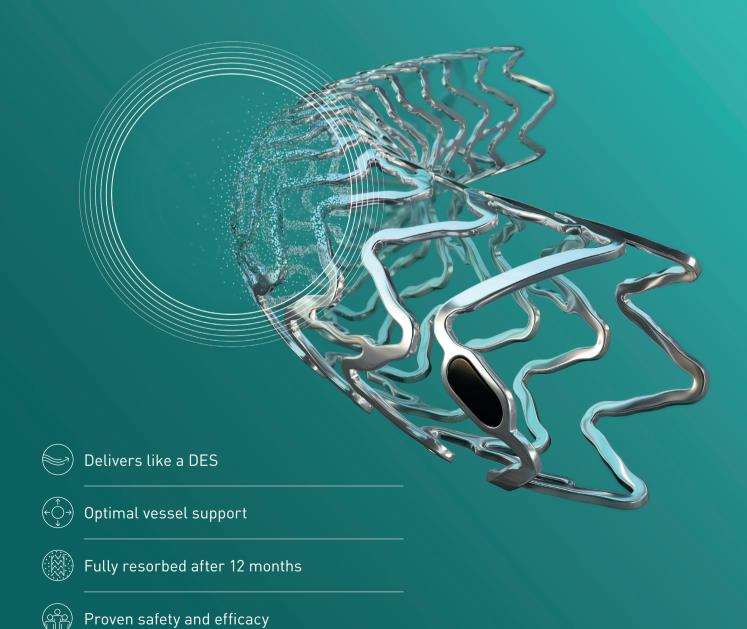
Freesolve™

Metallic Performance. Fully Resorbable.





Freesolve[™] RMS

Metallic Performance¹⁻³. Fully Resorbable^{a,4}.

Delivers like a DES⁵



Proven Orsiro® Mission DES delivery system6

Pushability⁵





Fully resorbed after 12 months⁷

Angiographic Analysis^{d,e}

OCT Analysis^{d,e}

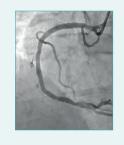
Pre-procedure





Initial diagnostic

Post Implantation





Immediately after implantation, struts are well apposed to the vessel wall.

6-month follow-up





While the Magnesium resorption process continues, endothelialisation progresses.

12-month follow-up





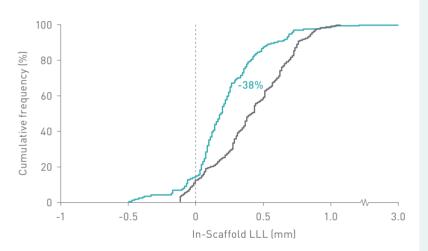
The Magnesium resorption is completed. No struts appear in OCT.

Proven safety and efficacy^{2,3}

....

BIOMAG-I First-In-Human (FIH) trial³

Comparison of In-Scaffold Late Lumen Loss (LLL) at 12 months Freesolve RMS (BIOMAG-I) versus Magmaris RMS (BIOSOLVE-II)



Freesolve RMS demonstrated 38% improvement of LLL versus Magmaris RMS at 12 months³.

BIOMAG-I trial with Freesolve RMS $0.24 \pm 0.36 \text{ mm} [95\% \text{ CI: } 0.17; 0.31]^*$ **BIOSOLVE-II trial with Magmaris RMS** $0.39 + 0.27 \text{ mm} [95\% \text{ CI: } 0.31; 0.48]^{*,10}$

Excellent safety profile at 24 months¹¹



0.0% Myocardial Infarction

0.0% Cardiac Death

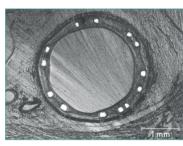


Optimal vessel support^{8,9}

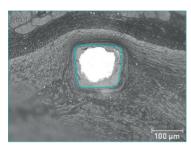
Blomag backbone
A strong Magnesium alloy⁶

Blomag coating

Blomag core
A strong⁷, uniform shape⁸



Equal resorption between struts⁸



Uniform shape due to homogenous strut resorption⁸





Indicated for de novo coronary artery lesions.

Technical Data		Scaffold							
		Scaffold m	aterial	Pr	Proprietary BIO mag Magnesium alloy ø 2.5 mm: 99 µm; ø 3.0/3.5 mm: 117 µm; ø 4.0 mm: 147 µm Nominal diameter + 0.6 mm One oval Tantalum marker at each end BIO lute® resorbable Poly-L-Lactide (PLLA) eluting a limus drug				
		Strut thick	ness	ø 2					
		Maximum 6	expandable diam	eter No					
		Markers		On					
		Drug coatir	ng	BI					
		Delivery system							
		Catheter ty	ре	Ra	Rapid exchange				
		Catheter le	ngth	14	140 cm				
		Recommen	ided guide cathet	er 6F	6F				
		Crossing p	rofile	ø 2	ø 2.5 mm < 1.3 mm; ø 3.0-4.0 mm < 1.4 mm				
		Guide wire	diameter	0.0	0.014"				
		Nominal Pressure (NP)		10	atm				
		Rated Burs	t Pressure (RBP)	16	atm				
Vessel Sizing		Scaffold Diameter ø (mm)		Recomm ø (mm)	Recommended Vessel Diameter ø (mm)		Maximum Diameter for Post Dilation ø (mm)		
		2.50		2.50 - 2	2.70		3.1		
		3.00			2.70 - 3.20		3.6		
		3.50		3.20 - 3	3.20 - 3.70		4.1		
		4.00	4.00		3.70 - 4.20		4.6		
Compliance Chart		Balloon diameter (mm)							
		ø 2.50	ø 3.00	ø 3	3.50	ø 4.00			
Nominal Pressure (NP)	atm*	10	10	10		10			
	ø (mm)	2.52	3.04	3.5	54	4.02			
Rated Burst Pressure (RBP)	atm*	16	16	16		16			
	ø (mm)	2.72	3.29	3.7	19	4.35			
Ordering Information		Scaffold ø (mm)	Scaffold length (mm)					*1 atm = 1.013 ba	
			13	18	22	26	30		
		2.50	443103	443104	443105	-	-		
		0.00	//2100	443109	443110	/001E/	((0 1 1 1		
		3.00	443108	443109	443110	482156	443111		

Target Lesion Failure (TLF) is a composite of Target-Vessel Myocardial Infarction (TV-MI), clinically-driven Target Lesion Revascularisation (CD-TLR) and Cardiac Death.

443119

443120

482158

443118

BIOSOLVE-II and BIOMAG-I based on Kaplan-Meier failure estimate analysis.

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^{*}based on QCA paired data; a. 99.3% resorbed at 12 months (markers are not resorbable), based on clinical data; b. BIOMAG-I case in normal cine projection, courtesy of Prof. Michael Haude, Rheinland Klinikum Neuss GmbH, Lukaskrankenhaus, Neuss, Germany; c. Xience Sierra DES (Abbott); d. Angiographic and OCT Analyses derived from two different BIOMAG-I cases, courtesy of Prof. Michael Haude, Rheinland Klinikum Neuss GmbH, Lukaskrankenhaus, Neuss, Germany; e. The 4P protocol was respected; f. Indications as per IFU.

^{1.} IIB Benchtest data, BIOTRONIK data on file; 2. Haude M. et al., the Lancet eClinical Medicine 2023;59: 101940; 3. Haude, M. et al., Euro Intervention 2023, 19:1-1 published online May 2023; 4. Seguchi M et al. OCT-Analysis 12M, presented at ESC 2023; 5. BIOTRONIK data on file, IIB Benchtest data: Freesolve in comparison to BIOTRONIK Orsiro Mission and Abbott Xience Sierra; 6. BIOTRONIK data on file; 7. Based on intravascular OCT analysis of the BIOMAG-I trial presented by Dr. M. Seguchi at ESC 2023; 8. Based on pre-clinical data, Seguchi, M. et al., EuroIntervention 2023, 18-online publish-ahead-of-print January 2023; 9. BIOTRONIK data on file, in comparison to predecessor device; 10. Haude M., et al. Sustained safety and performance of the second-generation drug-eluting absorbable metal scaffold in patients with de novo coronary lesions: 12-month clinical results and angiographic findings of the BIOSOLVE-II first-in-man trial. Eur Heart J. 2016;37:2701-9; 11. Poster presentation "BIOMAG-I: two-year clinical outcomes of the resorbable magnesium Scaffold-DREAMS 36" by Prof. Haude at EuroPCR 2024.