

GENIUS



SIROLIMUS-ELUTING
COBALT CHROMIUM
CORONARY STENT SYSTEM

SYNLAS
VASCULAR

GENIUS STENT REGISTRY

- Ultrathin 65 µm Design
- Excellent Deliverability
- Degradable Polymermatrix
- Synchronized Polymerdegradation and Drug Release
- Wide Range of Sizes
- Stent Lengths up to 48 mm
- 36 Months Shelf Life

STENT SPECIFICATIONS

Type of design	Open-cell, 3 interlinks
Design details	9 crowns
Material	Cobalt Chromium L605
Expansion range	2.25 mm – 4.00 mm
Strut thickness	0.0026" (65 µm)
Strut width (main segment)	0.0028" (72 µm)
Strut width (interlink)	0.0023" (58 µm)
Foreshortening	< 2.5%
Mechanical recoil	< 6%
Metal coverage	< 13.6%
Matrix thickness	3 – 5 µm
Drug / Polymer	Sirolimus / PLGA
Drug load	1.4 µg / mm ²

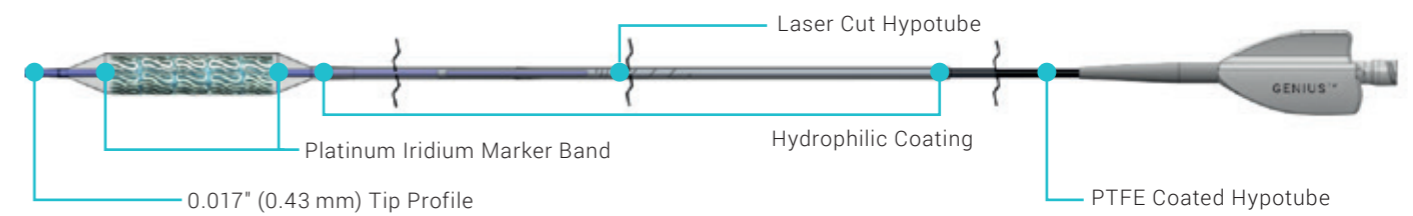
**BIODEGRADABLE
COATING
65 µm**

SYNLAS GENIUS™



TECHNICAL SPECIFICATIONS

**36 MONTHS
SHELF LIFE**



COATING

The GENIUS™ Drug Eluting Stent Delivery System is a drug-device combination as the stent is coated with the anti-restenotic active pharmaceutical ingredient Sirolimus (1.4 µg/mm²) within a biocompatible PLLA & PLGA matrix. The new alliance of a fully biodegradable polymer, together with Sirolimus efficiency to prevent restenosis, assures homogeneous drug distribution and uniform release kinetics. Such combination is expected to demonstrate long term efficacy as well as extremely low rate of late stent thrombosis.

DELIVERY SYSTEM SPECIFICATIONS

Usable length	138 cm	
Length guidewire lumen	27 cm	
Recommended guide catheter	5F (min. I.D. 0.056")	
Material	Balloon	Proprietary polyamide compound
	Distal shaft	Polyamide, multilayer tube
		Hydrophilic coating
	Proximal shaft	Stainless steel, PTFE coated
Shaft size	Proximal	1.9 F
	Distal	2.8 – 3.0 F, depending on balloon-Ø
Folding	3-fold balloon	
Marker bands	Embedded Platinum / Iridium	
Tip entry profile	0.017" (0.43 mm)	
Max. guidewire	0.014" (0.36 mm)	

SIROLIMUS-ELUTING COBALT CHROMIUM CORONARY STENT SYSTEM

COMPLIANCE CHART

Pressure [MPa / bar]	Stent I.D. [mm]						
	2.25	2.50	2.75	3.00	3.25	3.50	4.00
0.8 / 8	2.25	2.50	2.75	3.00	3.25	3.50	4.00
0.9 / 9	2.27	2.53	2.78	3.03	3.28	3.55	4.04
1.0 / 10	2.29	2.56	2.81	3.06	3.32	3.59	4.09
1.1 / 11	2.32	2.59	2.84	3.09	3.35	3.62	4.12
1.2 / 12	2.34	2.62	2.86	3.12	3.38	3.65	4.15
1.3 / 13	2.36	2.65	2.89	3.14	3.41	3.69	4.19
1.4 / 14	2.38	2.68	2.91	3.17	3.44	3.72	4.23
1.5 / 15	2.40	2.71	2.94	3.20	3.47	3.76	4.27
1.6 / 16	2.42	2.74	2.97	3.22	3.50	3.80	4.31
1.7 / 17	2.45	2.78	3.00	3.25	3.53	–	–
1.8 / 18	2.47	2.82	3.03	–	–	–	–
1.9 / 19	2.49	–	–	–	–	–	–
Nominal pressure	0.8 MPa / 8 bar		Rated burst pressure			Do not exceed	

PRODUCT ORDERING INFORMATION

Stent I.D.	Stent length										
	8 mm	10 mm	13 mm	16 mm	18 mm	23 mm	28 mm	33 mm	38 mm	43 mm	48 mm
2.25 mm	GEN22508	GEN22510	GEN22513	GEN22516	GEN22518	GEN22523	GEN22528	GEN22533	GEN22538	–	–
2.50 mm	GEN25008	GEN25010	GEN25013	GEN25016	GEN25018	GEN25023	GEN25028	GEN25033	GEN25038	GEN25043	–
2.75 mm	GEN27508	GEN27510	GEN27513	GEN27516	GEN27518	GEN27523	GEN27528	GEN27533	GEN27538	GEN27543	GEN27548
3.00 mm	GEN30008	GEN30010	GEN30013	GEN30016	GEN30018	GEN30023	GEN30028	GEN30033	GEN30038	GEN30043	GEN30048
3.25 mm	GEN32508	GEN32510	GEN32513	GEN32516	GEN32518	GEN32523	GEN32528	GEN32533	GEN32538	GEN32543	GEN32548
3.50 mm	GEN35008	GEN35010	GEN35013	GEN35016	GEN35018	GEN35023	GEN35028	GEN35033	GEN35038	GEN35043	GEN35048
4.00 mm	GEN40008	GEN40010	GEN40013	GEN40016	GEN40018	GEN40023	GEN40028	GEN40033	GEN40038	GEN40043	GEN40048

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