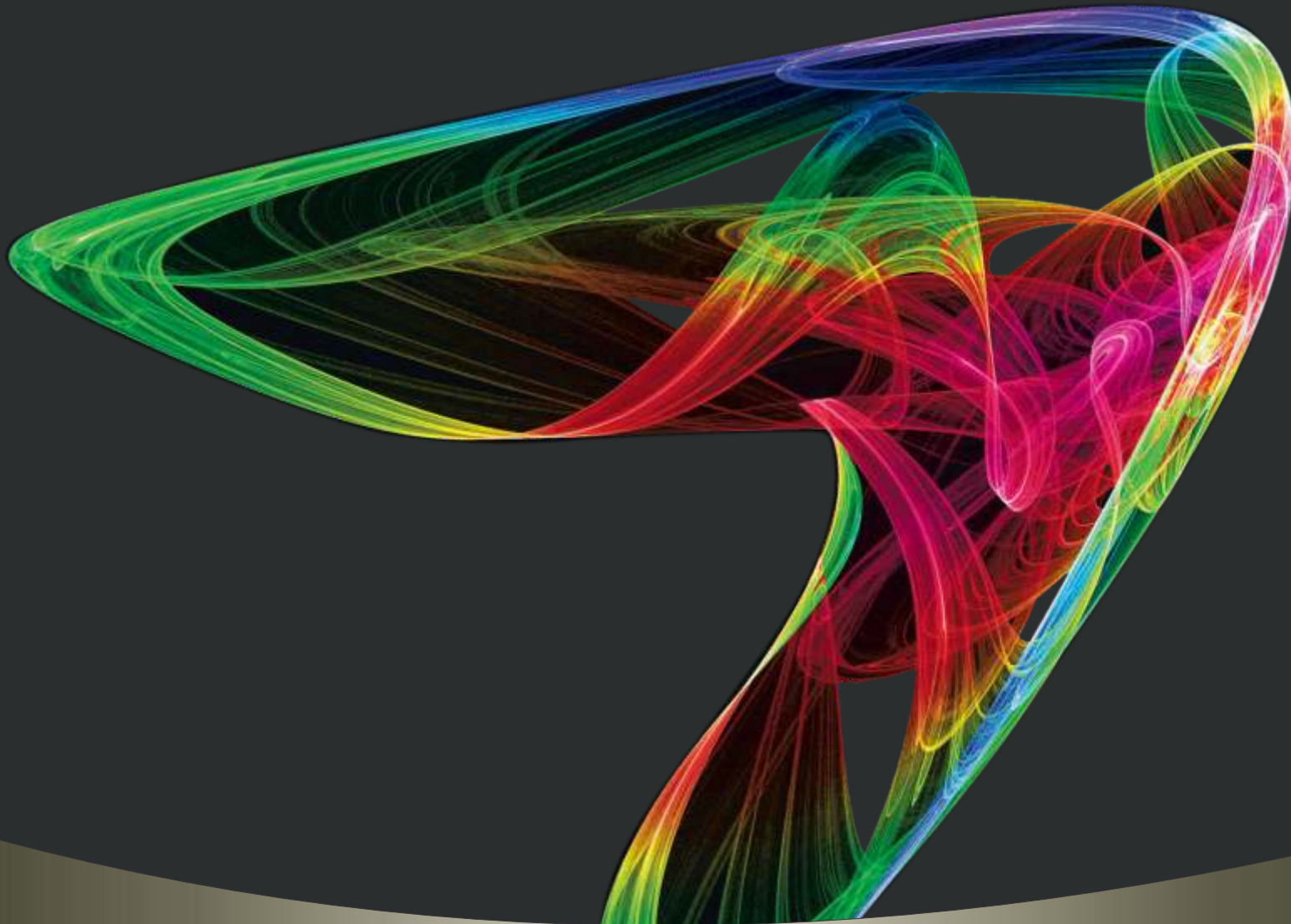


**NEXGEN**<sup>TM</sup>

Cobalt Chromium Coronary Stent System

Meril



**NEXGEN**<sup>TM</sup>  
Cobalt Chromium Coronary Stent System

# NEXGEN<sup>TM</sup>

## Cobalt Chromium Coronary Stent System

***Delightful Performance, delivered.***

SIMPLIFYING THE ART AND SCIENCE OF CORONARY STENT ENGINEERING

### CREATING THE RIGHT CORONARY STENT SYSTEM - NexGen<sup>TM</sup>

Features	Co-Cr, ultra-low strut thickness 65 $\mu\text{m}$	Strut width variability	Hybrid stent design	Variable Crown Design	Tapered balloon shoulders, low overhang	
Benefits	High fatigue resistance, Lower intra-arterial injury	Morphology Mediated Expansion <sup>TM</sup> leading to superior conformability	High Radial Strength (3% Recoil)	Uncompromised side branch access (open cells in the middle)	Optimal scaffolding (14% metal to artery ratio)	Minimized edge injury
Clinical Implications	Propensity for early endothelialization, reduced binary restenosis & TLR		Ease in treating bifurcations	Superior acute gain	Propensity for reduced edge restenosis	

PREDICTABLE OUTCOME - INCREASED SAFETY & EFFICACY.

### PROOF OF CONCEPT

#### Optimal endothelialization

Because of its superior conformability & ultra-low strut thickness (65  $\mu\text{m}$ ), NexGen<sup>TM</sup> is seen to endothelialize rapidly as amply demonstrated in porcine coronary artery model<sup>1</sup>.

Histopathology Image in porcine model - optimal scaffolding



SEM image in porcine model - Complete endothelialization at 28 days.



## NOVEL STENT ARCHITECTURE

- ❖ The novel intelligent hybrid of open and closed cells allows for a morphology mediated expansion leading to uniform conformability and imparts structural strength.
- ❖ Low balloon over hang, short abrupt balloon shoulders minimize balloon edge injury.
- ❖ In addition, the unique strut width variability ensures radial strength retention.

### Morphology mediated expansion as a result of strut width variability



1. Strut width variability



2. Unexpanded stent



3. Morphology mediated expansion



4. Complete expansion

## REDUCED NEOINTIMAL GROWTH

Significant differences were found in terms of mid -stent neointimal thickness (  $0.15 \pm 0.41$  mm for NexGen™ Vs.  $0.30 \pm 0.41$  mm for Driver,  $p=0.018$  ), and distal stent neointimal thickness (  $0.13 \pm 0.51$  mm for NexGen™ Vs.  $0.30 \pm 0.51$  mm for Driver,  $p=0.027$  )<sup>1</sup>.

### 28 day comparison: NexGen™ Vs. Driver in porcine coronary artery



NexGen™ 3.5 x 13 LCx



Driver 3 x 12 LAD

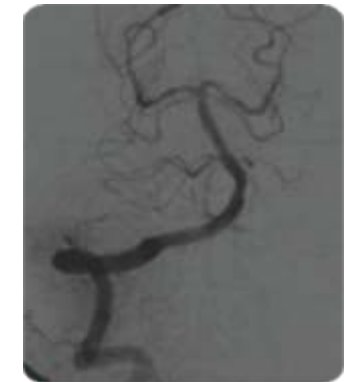
## DELIGHTFUL PERFORMANCE, DELIVERED.



Pre



Proximal vessel tortuosity



Post

1. Data on File.

## NEXGEN™ TECHNICAL SPECIFICATIONS

### STENT

Stent Material	:	Cobalt Chromium L605
Strut Thickness	:	65 µm (0.065mm or 0.0026")
Stent Diameters (mm)	:	2.50, 2.75, 3.00, 3.50, 4.00, 4.50
Stent Lengths (mm)	:	8, 13, 16, 19, 24, 29, 32, 37, 40
Mean recoil	:	3%
Mean foreshortening	:	0.29%



### DELIVERY SYSTEM

Delivery System	:	Rapid Exchange
Stent Diameter	:	Crossing Profile

2.50	0.91 mm / 0.036"
2.75	0.98 mm / 0.039"
3.00	0.99 mm / 0.039"
3.50	1.06 mm / 0.042"
4.00	1.16 mm / 0.046"
4.50	1.19 mm / 0.047"

Nominal Pressure	:	9 ATM
Rated Burst Pressure	:	16 ATM (14 ATM for 3.5 mm with lengths > 35 mm; Diameter 4.0 mm with lengths > 30 mm Diameter 4.5 mm with all lengths)

Balloon overhang	:	< 0.5mm
Shaft outer diameter	:	Proximal 1.95F / Distal 2.7F
Radiopaque markers	:	2 – Platinum / Iridium
Usable Catheter length	:	140cms
Guide Catheter Compatibility	:	5F (Min. I. D. 0.056"/ 1.42mm)
Max. Guide Wire	:	0.014" (0.36mm)

### NEXGEN™ STENT ORDERING INFORMATION

Dia / Length	8mm	13mm	16mm	19mm	24mm
2.50mm	NXG25008	NXG25013	NXG25016	NXG25019	NXG25024
2.75mm	NXG27508	NXG27513	NXG27516	NXG27519	NXG27524
3.00mm	NXG30008	NXG30013	NXG30016	NXG30019	NXG30024
3.50mm	NXG35008	NXG35013	NXG35016	NXG35019	NXG35024
4.00mm	NXG40008	NXG40013	NXG40016	NXG40019	NXG40024
4.50mm	NXG45008	NXG45013	NXG45016	NXG45019	NXG45024

Dia / Length	29mm	32mm	37mm	40mm
2.50mm	NXG25029	NXG25032	NXG25037	NXG25040
2.75mm	NXG27529	NXG27532	NXG27537	NXG27540
3.00mm	NXG30029	NXG30032	NXG30037	NXG30040
3.50mm	NXG35029	NXG35032	NXG35037	NXG35040
4.00mm	NXG40029	NXG40032	NXG40037	NXG40040
4.50mm	NXG45029	NXG45032	NXG45037	NXG45040



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