

Stents		Netherland	USA	USA	USA	USA	USA	USA	Japan
		Concept Medical	Abbott	Abbott			Medtronic		Terumo
		Abluminus DES +	Xience Xpedition	Xience Alpine	Promus Premier	Synergy	Resolute Integrity	Resolute Onyx	UltiMaster Tansei
Features		Stent designed to treat diabetic and AMI patients	Same Multilink 8 platform with better delivery system (22% less force required than Xience Prime)	It has a flexible and conformable design based on the proven MULTI-LINK 3-3-3 non linear link design platform	The first customized Platinum Chromium Stent architecture, the market-leading Everolimus drug and PVDF-HFP polymer combination and an enhanced catheter to provide PREMIER outcomes.	Different Polymer over Promos Element Plus	Unique Continuous Sinusoid Technology defines current performance and enables future innovations	The only DES with CORE WIRE TECHNOLOGY AND CONTINUOUS SINUSOID technology	Innovative abluminal bioresorbable coating
Drug		Sirolimus	Everolimus	Everolimus	Everolimus	Everolimus	Zotarolimus	Zotarolimus	Sirolimus
Drug Loading		1.4 µg per mm <sup>2</sup>	1 µg per mm <sup>2</sup>	1 µg per mm <sup>2</sup>	1 µg per mm <sup>2</sup>	1 µg per mm <sup>2</sup>	1.6 µg per mm <sup>2</sup>	1.6 µg per mm <sup>2</sup>	3.9 µg per mm <sup>2</sup>
Polymer		PLLA + PLGA	PVDF-HCP Fluorinated Co-Polymer	PVDF-HCP Fluorinated Co-Polymer	PVDF-HFP polymer	Bioabsorbable PLGA polymer	BioLinx Biocompatible Polymer	BioLinx Biocompatible Polymer	Poly (DL-lactide-co-caprolactone)
Material		Co-Cr (L605)	Co-Cr (L605)	Co-Cr	Platinum Chromium	Platinum Chromium	CoNi	CoNi with Pt-Ir	Cobalt Chromium L605
Size- Diameter	Diameter	2.25,2.5,2.75,3.0,3.5,4.0	2.25, 2.5,2.75,3.00,3.50,4mm	2.25, 2.5,2.75,3.25, 3.50,4mm	2.25, 2.5,2.75,3.0,3.5,4.0	2.25, 2.5,2.75,3.0,3.5,4	2.25 to 2.75mm (8,12,14,18,22,26,30mm); 3,3.5,4mm (8,12,14,18,22,26,30,34,38)	2,2.25,2.5,2.75,3,3.5,4,4.5,5	2.25,2.5,2.75,3,3.5,4
Length	Length	8,12,16,20,24,28,32,36,40	8,12,15,18,23,28,33,38	8,12,15,18,23,28,33,38	8,12,16,20,24,28,32,38	8,12,16,20,24,28,32,38	8,12,14,18,22,26,30,34,38	8,12,15,18,22,26,30	9,12,15,18,21,24,28,33,38
Strut Thickness		73µm	81µm	81µm	0.0032 inches (0.081 mm) for diameters 2.25 mm to 3.50 mm 0.0034 inches (0.086 mm) for diameter 4.00 mm	74-81 UM	91µm	81-91µm	80µm
Strut Width		120 µ			Upto 0.076mm	0.061 for Small Vessels & 0.089 for Large Vessels		0.090mm	NA
Design		Hybrid cell design	Semi open cell design	Semi open cell design	Hybrid Cell Design	Hybrid Cell Design	Helical Design	Helical Design	open cell design
Radial Strength		1.1 BAR or 0.11N/mm	1.1 BAR or 0.11N/mm	1.1 BAR or 0.11N/mm	1.1 BAR or 0.10N/mm	0.26N/MM	0.17N/MM	0.2N/MM	NA
Crossing Profile		0.038"	0.041" (3MMmm Dia); 0.049" (3.5 mm)	0.042	0.040"	0.039	0.039" (2.5mm); 0.046" (3.5mm)	0.039" (2.5mm); 0.046" (3.5 mm)	0.044"
Balloon material		PEBAX	PEBAX	Multilayer Pebax					Nylon
Surface (Metal) To Artery Ratio		12- 16 %	14-16%	14-16%	6.4% (3mm Diameter); 17.6% (2.5mm Dia)	16.4% (3mm Diameter); 17.6% (2.5mm Dia)	14-16%	14-16%	14-16%
Nominal pressure		8atm	10 atm	10 atm	11 ATM	11 ATM	12 ATM	12 ATM	9 ATM
Rated burst pressure		14atm	18/ 16atm	18/ 16atm	18 atm (stent diameters 2.25 – 2.75 mm) 16 atm (stent diameters 3.00 – 4.00 mm)	18 atm (stent diameters 2.25 – 2.75 mm) 16 atm (stent diameters 3.00 – 4.00 mm)	16 ATM	2.25-4.0 mm = 18 ATM (1824 kPa), RX Only: 4.5-5.0 mm = 16 ATM	<b>16 atm - 2.25 to 3.0 mm / 14 atm- 3.5 to 4.0</b>
Guide wire Compatability		0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
Foreshortening		<1%	Nominal						
Recoil		< 5 %					5.10%	5.10%	
Drug Elution Days		50% in 7 days, 80% drug in 48 days, balance 3-4 months depending on length	120 days	120 days	3 months	3 months	180 days	180 days	3-4 months
Polymer released		6 months	Permanent polymer	Permanent polymer	3-4 months	3-4 months	Permanent polymer	Permanent polymer	Biodegradable 3-4 months
Balloon Coating		Sirolimus	No Coating	No Coating	No Coating	No Coating	No Coating	No Coating	No Coating
Clinical Trials		en-ABL 1 - 40 Pts , en - ABL e registry - 2500 Pts , Ongoing Trials - ( DEDICATE registry - 5k pts / ABILITY RCT - 165 pts / ABILITY - DM Global - 3K Pts / ABILITY ACS - 1500 Pts	Spiril I,II,III, IV, V	Spiril I,II,III, IV, V	work horse	Evolve	Resolute	Deliver study	Nobori Clinical Data, Nobori 2, SORT OUT V, COMPARE 2, SECURITY, BASKET PROVE 2, Nobori 1, NOBORI PK, NOBORI CORE, NOBORI Japan