

CEREBRAL COILS

Company Name	Product Name	Materials Used	Coil Type	Method of Detachment	Comments	US FDA Indicated Use
Codman Neurovascular	Trufill DCS Orbit Detachable Coil System	Bare platinum	Complex fill, complex standard, mini complex fill, helical fill, tight distal loop technology	Hydraulic detachment	Excellent conformability and concentric filling for outstanding packing density	Intracranial aneurysms, AVMs and AVFs; embolization of peripheral vasculature
	Orbit Galaxy Detachable Coil System	Bare platinum, polypropylene stretch-resistant suture	Complex framing, filling, and finishing coils		Coil has a unique ability to seek out and fill the open spaces in an aneurysm, enabling outstanding packing density	Xtrasoft Orbit Galaxy Coils are indicated for embolizing intracranial aneurysms; fill and frame Orbit Galaxy coils are indicated for intracranial aneurysms, AVMs and AVFs; embolization of peripheral vasculature
	Micrus Endovascular Microcoil System	Stretch-resistant bare-platinum and ceramic-PGA coils	Micrusphere, Presidio, and Cashmere three-dimensional framing coils; Delta Wind filling and finishing Coils; Ultipaq and Helipaq two-dimensional filling coils	Mechanical detachment using resistive heating	Complete range of coil designs and shapes needed to effectively treat a broad range of aneurysm types	Intracranial aneurysms, AVMs and AVFs; embolization of peripheral vasculature
Covidien/ev3	Axium Detachable Coils	Bare platinum, PGLA microfilament, and nylon microfilament	Framing, filling, finishing	Mechanical detachment	Stretch-resistance, optimal balance of softness, stability, and volume for increased packing volume, instant detachment	Not provided
MicroVention Terumo	HydroCoil MicroPlex	Bare-platinum and platinum hydrogel coated coils	MicroPlex coil system (compass/complex for framing helical coils for filling HyperSoft for finishing), HydroCoil embolic system, which combines platinum coils and hydrogel technology (HydroSoft for filling/finishing)	V-Grip detachment controller; self-contained integrated power supply; rapid coil detachment: 0.75 seconds	Hydrogel provides increased filling and greater mechanical stability; platinum coils provide versatile framework, stability, and conformability	Not provided
Stryker Neurovascular	GDC 360° Detachable Coils	Bare platinum	GDC 3D, GDC 360, GDC Standard, GDC Soft, GDC Soft SR, GDC UltraSoft	Electrolytic detachment	Aneurysm occlusion with Matrix biopolymer coating	Intended for embolization of intracranial aneurysms and other neurovascular abnormalities
	Target Detachable Coils	316LVM stainless steel	360 and helical coils	InZone detachment system; single-button activation	Provides an expanded suite of 10-size 360 and helical coils, including longer lengths and the first bare complex finishing coil in the Target 360 Ultra detachable coil	Intended to endovascularly obstruct or occlude blood flow in vascular abnormalities of the neurovascular and peripheral vessels

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Penumbra, Inc.	Penumbra Coil 400	Stretch-resistant bare platinum	Complex standard, complex soft, J-soft, curve extra soft	Instant, physician-controlled mechanical detachment	Optimized for framing, filling, and finishing; softer, larger diameter (0.020 inch) allows for more efficient packing of aneurysms	Indicated for the endovascular embolization of intracranial aneurysms, other neurovascular abnormalities such as AVMs and AVF, arterial and venous embolizations in the peripheral vasculature

AVF, arteriovenous fistula; AVM, arteriovenous malformation; GDC, Guglielmi Detachable Coil; PGA, polyglycolic acid; PLGA, polylactic-co-glycolic acid.