

# MECHANICAL THROMBECTOMY DEVICES

Company Name	Device Name	Sheath Size (F)	Guidewire (inch)	Working Length (cm)	Mode of Operation	CE Mark	FDA Indicated Use
Arrow International, Inc	Arrow-Trerotola PTD (Percutaneous Thrombolytic Device)	5	None	65	Mechanical thrombectomy	Yes	Used in combination with the rotator drive, permits mechanical declotting of native arteriovenous fistulae and synthetic dialysis grafts.
	Arrow-Trerotola Over-The-Wire (OTW) PTD (Percutaneous Thrombolytic Device)	7	.025	65,120			
Bacchus Vascular	Trellis-8 Peripheral Infusion Catheter	8	.035	80 or 120 catheter length with treatment areas of 10, 15, or 30	Isolated thrombolysis through introduction of lytic between two occlusion balloons; low frequency oscillation of dispersion wire increases the clot surface area to enhance the speed of thrombolytic therapy. Aspiration port facilitates removal of remaining thrombolytic and lysed debris	Yes	Controlled and selective infusion of physician-specified fluids, including thrombolytics, into the peripheral vasculature.
Cordis Endovascular Division of Cordis Corporation	Hydrolyser Percutaneous Thrombectomy Catheter	6	.018	65, 100	Conventional contrast power injector is used to inject saline solution through the injection lumen; resultant pressure reduction at the tip nozzle creates a 360° vortex that fragments and aspirates thrombus into the exhaust lumen; thrombolytic material is discharged through the exhaust lumen into a collection bag	Yes	Indicated to percutaneously remove soft, newly formed (less than 5 days old) thrombus from dialysis shunts of 3-6 mm.
Concentric Medical, Inc.	Merci Retrieval System	8, 9	.014	Balloon guide =95; microcatheter =150; retriever =180	Mechanical thrombectomy with aspiration and proximal flow arrest	Yes	Restoring blood flow in the neurovasculature by removing thrombus in patients experiencing ischemic stroke; patients who are ineligible for intravenous tissue plasminogen activator (IV t-PA) or who fail IV t-PA therapy are candidates for treatment; retrieval of foreign bodies misplaced during interventional radiological procedures in the neuro, peripheral and coronary vasculature.

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Datascope	ProLumen	6	None	65	Wall contact with clot maceration properties	No	AV grafts.
EKOS Corporation	EndoWave Ultrasound Accelerated Thrombolysis System (USAT)	5, 3	.035, .014	106, 150	Accelerate thrombolysis by delivery of high-frequency, low-power ultrasound to temporarily loosen fibrin matrix to increase clot permeability and drive the lytic agent deep into the clot for better lytic agent binding	Yes	Intended for the controlled and selective infusion of physician-specified fluids, including thrombolytics, into the peripheral vasculature. (5.2-F Peripheral System and 3-F Micro system are approved for delivery of lytics in the peripheral system and the 3-F system is also approved for delivery of contrast agents in the neurovasculature).
ev3	X-Sizer Catheter System	6, 7	.014	135	Enclosed cutter with vacuum aspiration	Yes	Mechanical removal of thrombus in synthetic hemodialysis access grafts.
	Helix Clot Buster Thrombectomy Device (Amplatz Device)	7	None	75, 120	Wall washing impeller technology for clot fragmentation		Dialysis graft and native fistulae.
	Castaneda Over-The-Wire Brush	6	.035	65	Wall contact with rotating brush		Synthetic AV grafts.
FoxHollow Technologies, Inc.	Rinspirator PR7-65	7	.014	65	Hand-held fluidic debris removal; simultaneous rinsing to wash vessel walls and aspiration to evacuate debris	No	Indicated to infuse physician-specified fluid and remove/aspirate fluid, fresh, soft thrombi from the peripheral vasculature.
	Rinspirator PR7	7	.014	135	Hand-held fluidic debris removal; simultaneous rinsing to wash vessel walls and aspiration to evacuate debris	No	Indicated to infuse physician-specified fluid and remove/aspirate fluid, fresh, soft thrombi from the peripheral vasculature.
	Rinspirator CP5 (6-F guide compatible)	5	.014	135	Hand-held fluidic debris removal; simultaneous rinsing to wash vessel walls and aspiration to evacuate debris; for peripheral and coronary use	Yes	Indicated to infuse physician-specified fluid and remove/aspirate fluid, fresh, soft thrombi from the coronary and peripheral vasculature.
	Rinspirator CP55 (7-F guide compatible)	6	.014	135	Hand-held fluidic debris removal; simultaneous rinsing to wash vessel walls and aspiration to evacuate debris; for peripheral and coronary use	Yes	Indicated to infuse physician-specified fluid and remove/aspirate fluid, fresh, soft thrombi from the coronary and peripheral vasculature.

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IDev Technologies, Inc.	AKónya Eliminator	6	None	60	Combination of manual driven axial rotational, and/or pulsatile motion	Yes	Indicated for use in the mechanical declotting of synthetic dialysis grafts.
	AKónya Eliminator Plus		.018				Indicated for use in the mechanical declotting of synthetic dialysis grafts and native AV fistulae.
Kensey Nash Corporation	ThromCat Thrombectomy Catheter System	6	.014	65, 135	High vacuum and saline jets disrupt thrombus and pulls into catheter. Enclosed helix for maceration and removal	Yes	Indicated for removing thrombus from synthetic hemodialysis access grafts and native vessel dialysis fistulae.
OmniSonics Medical Technologies, Inc.	Resolution Endovascular System	5	None	60	Nonthermal ultrasonic energy	No	Treatment of thrombosed synthetic dialysis access grafts.
Possis Medical, Inc.	XMI	4	.014	135	High-velocity water jets enclosed in catheter utilize Bernoulli principle for capture, microfragmentation, and removal	Yes	Removing thrombus in the treatment of patients with symptomatic coronary artery or saphenous vein graft lesions in vessels $\geq 2$ mm in diameter prior to balloon angioplasty or stent placement.
	XMI-RX	4	.014	135		Yes	Removing thrombus in the treatment of patients with symptomatic coronary artery or saphenous vein graft lesions in vessels $\geq 2$ mm in diameter prior to balloon angioplasty or stent placement.
	XMI-RX+	4	.014	135		Yes	Breaking apart and removing thrombus from infrainguinal peripheral arteries $\geq 2$ mm in diameter.
	Spiroflex Rapid Exchange	4	.014	135		Yes	Breaking apart and removing thrombus from infrainguinal peripheral arteries $\geq 2$ mm in diameter.

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Possis Medical, Inc.	SpiroflexVG Rapid Exchange	5	.014	135	High-velocity water jets enclosed in catheter utilize Bernoulli principle for capture, microfragmentation, and removal	No	Breaking apart and removing thrombus from infrainguinal peripheral arteries $\geq 3$ mm.
	XVG	5	.014	140		Yes	Breaking apart and removing thrombus from infrainguinal peripheral arteries $\geq 3$ mm in diameter.
	Xpeedior 120	6	.035	120		Yes	Breaking apart and removing thrombus from infrainguinal lower-extremity peripheral veins and arteries and from upper-extremity peripheral veins $\geq 3$ mm in diameter.
	AVX	6	.035	50		Yes	Breaking apart and removing thrombus from AV access conduits.
	DVX	6	.035	90		Yes	Breaking apart and removing thrombus from infrainguinal peripheral arteries $\geq 3$ mm in diameter.
Rex Medical	Cleaner	6	n/a	65, 120	Battery-operated, hand-held drive unit initiates the mechanical rotation of an atraumatic, wall-contact, sinusoidal vortex wire for effective thrombus maceration	No	Indicated for use in the mechanical declotting of synthetic dialysis grafts; currently pursuing native vessel indication.