



Rotational Atherectomy and Thrombectomy

**SMART. EASY.
EFFECTIVE.**





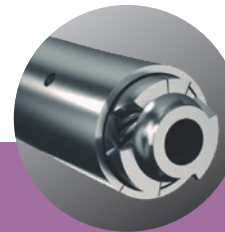
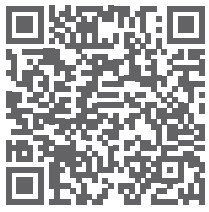
ROTATIONAL ATHERECTOMY AND THROMBECTOMY

BYCROSS is a 6F rotational atherectomy and thrombectomy device used in the peripheral arterial vascular system to restore flow in native arteries from acute to calcified CTOs and occluded stents, stent grafts or grafts.

The BYCROSS catheter is a coaxial, battery powered, rotating shaft with an expandible cutting wing. The occlusive material is aspirated via an integrated pump and discharged into a collecting bag.

- No capital equipment required
- Can be used without guidewire passage through the occlusion
- Unique catheter tip configuration for removal of calcified material

WATCH VIDEO



Crossing

Multiple Chisel Edge
Spinning Top Rotation

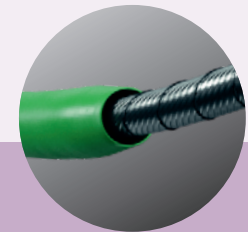
Front Drilling



Atherectomy

Expandible
Nitinol Wing

Enlarging &
Luminal Gain



Thrombectomy

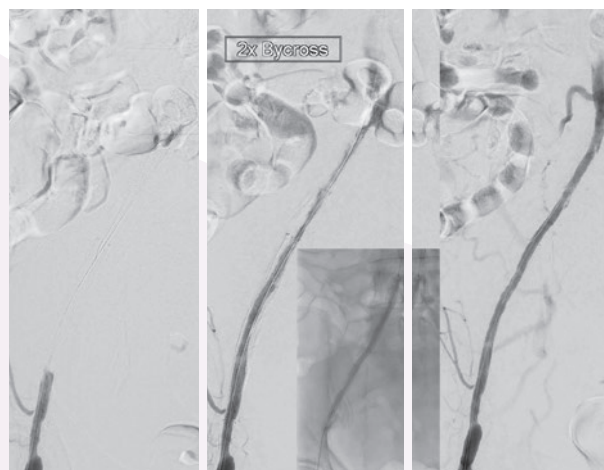
Active Pump
Archimedes' Screw

Aspiration &
Transportation

CASE REPORT 1

Long Chronic In-Stent Occlusion in Common Iliac artery. Debulking with BYCROSS by MD Jörg Teßarek

Case description: Clinical symptoms started 4 months ago, the index procedure was performed in 2021. After 8F sheath placement and wire passage BYCROSS passed the lesion two times with open wing showing a residual stenosis of 40% in a 7–8mm stent size. After prolonged POBA (3 minutes) with a 7×150mm balloon, a DCB of the same size was inflated for 3 minutes.



Common Iliac In-Stent Occlusion

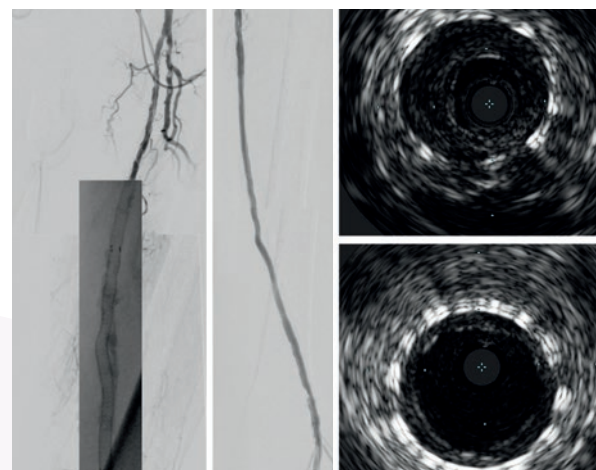
Post-BYCROSS result

Final result after POBA and DCB

CASE REPORT 2

SFA In-Stent Occlusion management with BYCROSS by MD Bruno Migliara

Case description and rationale: 81 yo patient treated with long SFA stent 4y ago presented with rest pain 20 days prior. BYCROSS allows to open the wing to reach 4.7 mm in diameter and has active aspiration. Hence, treatment with BYCROSS and successive DCB was decided: (1) as most recent papers show that debulking and DCB are the treatment of choice in complex ISR, Tosaka 2 and 3; (2) to achieve higher luminal gain in presence of SFA scaffold; (3) to increase drug uptake into the vessel wall; (4) to reduce risk of distal embolization.



Occlusion of the stented SFA

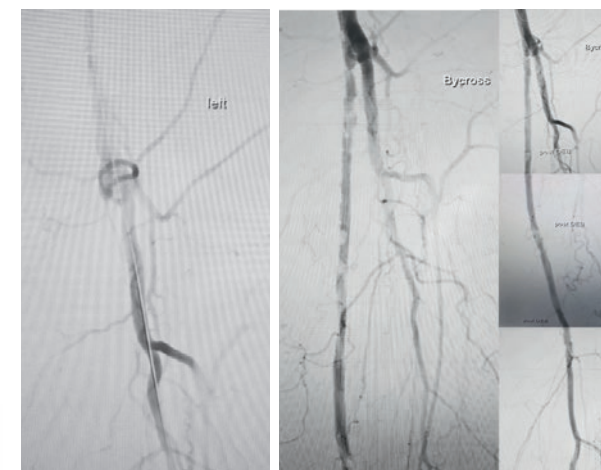
Final Result

IVUS pre BYCROSS
IVUS post BYCROSS

CASE REPORT 3

Long SFA CTO treated with contralateral approach with BYCROSS by MD Matthias Mende

Case description: 71 yo patient, ex smoker, 43 py, Claudicant, RF3 has been treated with BYCROSS in contralateral approach. 6Fr × 90cm reinforced introducer was attached to the device and 8Fr × 45 was used for the contralateral approach. Endoluminal recanalization of the CTO followed by a total of 4 passages, 2 with closed and 2 with open wing. Procedure has been completed with DCB avoiding stent implantation.



SFA CTO

Post-BYCROSS result

Final result after DCB without stent

SEE ALL
CASE REPORTS



“Meanwhile vessel preparation with BYCROSS and adjunctive POBA and DCB is our first-choice treatment option for de novo and recurrent complex occlusive lesions.”

Dr. Jörg Teßarek

“My preferred atherectomy device, especially for long, calcified CTOs in the SFA or popliteal region.”

Dr. Matthias Mende

“4.7 mm of reach with open wing for a larger luminal gain in the debulking of In-Stent occlusions! I think it’s great!”

Dr. Bruno Migliara

PRODUCT SPECIFICATIONS

Art. No.	Description	PU
BC213-50	BYCROSS 6F 50 CM	1
BC213-70	BYCROSS 6F 70 CM	1
BC213-95	BYCROSS 6F 95 CM	1

In combination with other devices / not included:

Device	Description
Guidewire	Any wire $\leq 0.035''$ Guidewire in appropriate length
Syringe	Standard-Luer-Syringe
Guiding Sheath	Any reinforced sheath $\geq 6F$ Guiding Sheath in appropriate length



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