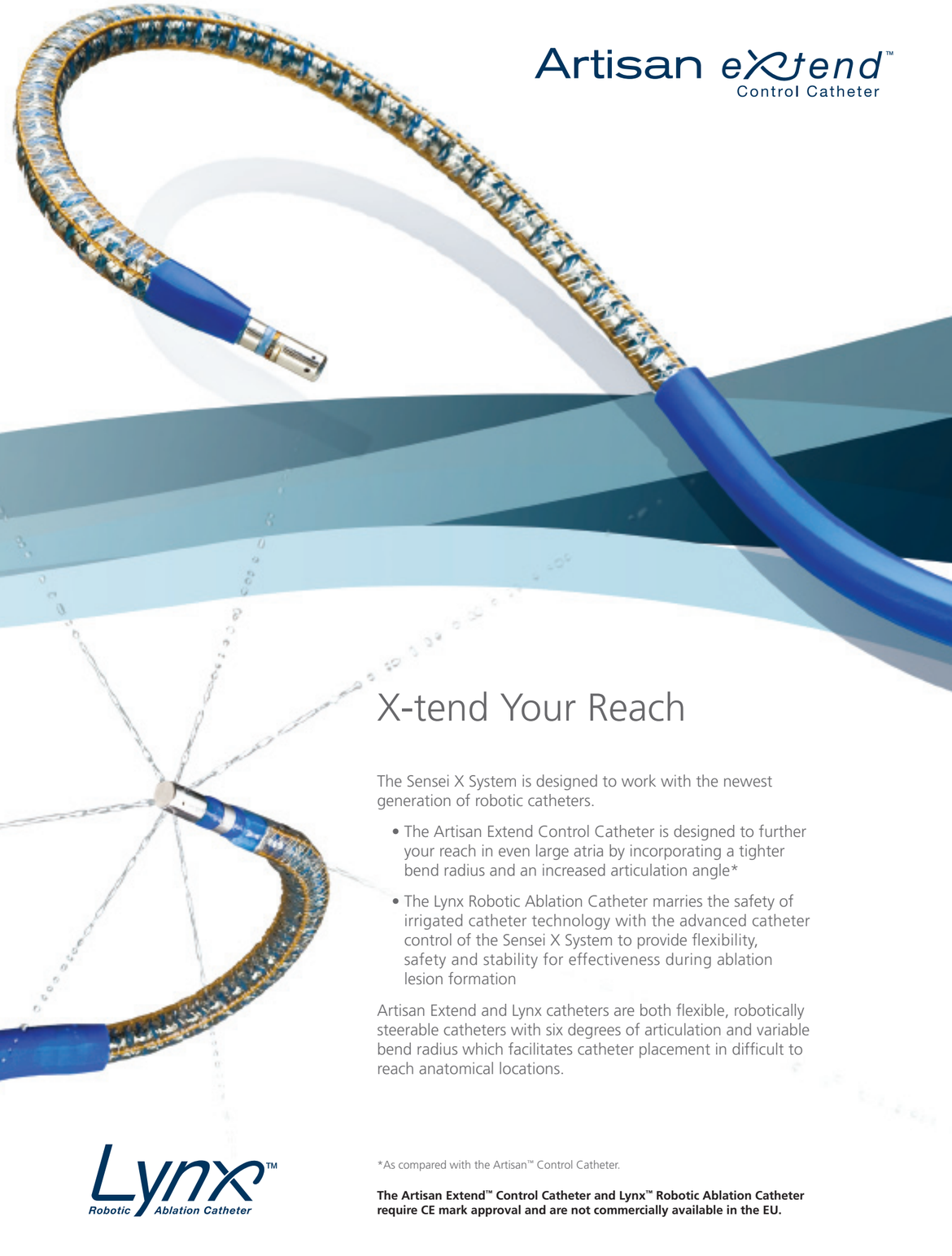
Sensei® X

Robotic Catheter System

X-tend. X-ccelerate. X-pand.

Sensei® X
Robotic Catheter System

Artisan eXtend™
Control Catheter



Get the X Factor

The Sensei® X Robotic Catheter System is the world's next-generation flexible, purely robotic platform, combining advanced levels of 3D catheter control and 3D visualization to bring you accuracy and stability during electrophysiology (EP) procedures such as atrial fibrillation ablation. By translating your hand motions at the workstation to the control catheter inside the patient's heart, the Sensei® X System's proprietary instinctive motion control technology empowers accurate and deliberate catheter placement.

Multiple technologies come together to deliver the X Factor:

- The **Artisan**™ and **Artisan Extend**™ **Control Catheters** accommodate irrigated and non-irrigated ablation catheters and provide six degrees of freedom through their unique robotically steerable catheter design
- The **Lynx**™ **Robotic Ablation Catheter** integrates the stability of robotics with the effectiveness of irrigated ablation technology in a smaller profile for atrial fibrillation procedures
- The **CoHesion**™ **3D Visualization Module** integrates the 3D motion control of the Sensei X System with the 3D visualization of the EnSite® System to provide clinical confidence in catheter placement
- **IntelliSense® Fine Force Technology with Tactile Vibration** measures forces on the working catheter and provides immediate tactile and visual feedback

Lynx™
Robotic Ablation Catheter

X-tend Your Reach

The Sensei X System is designed to work with the newest generation of robotic catheters.

- The Artisan Extend Control Catheter is designed to further your reach in even large atria by incorporating a tighter bend radius and an increased articulation angle*
- The Lynx Robotic Ablation Catheter marries the safety of irrigated catheter technology with the advanced catheter control of the Sensei X System to provide flexibility, safety and stability for effectiveness during ablation lesion formation

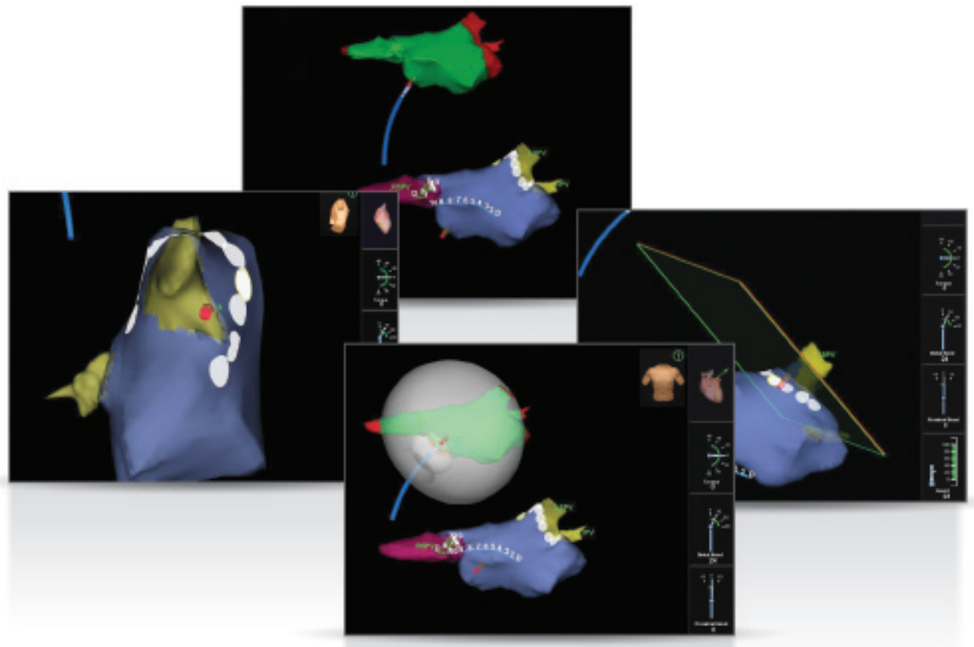
Artisan Extend and Lynx catheters are both flexible, robotically steerable catheters with six degrees of articulation and variable bend radius which facilitates catheter placement in difficult to reach anatomical locations.

*As compared with the Artisan™ Control Catheter.

The Artisan Extend™ Control Catheter and Lynx™ Robotic Ablation Catheter require CE mark approval and are not commercially available in the EU.

CoHesion™

3D Visualization Module



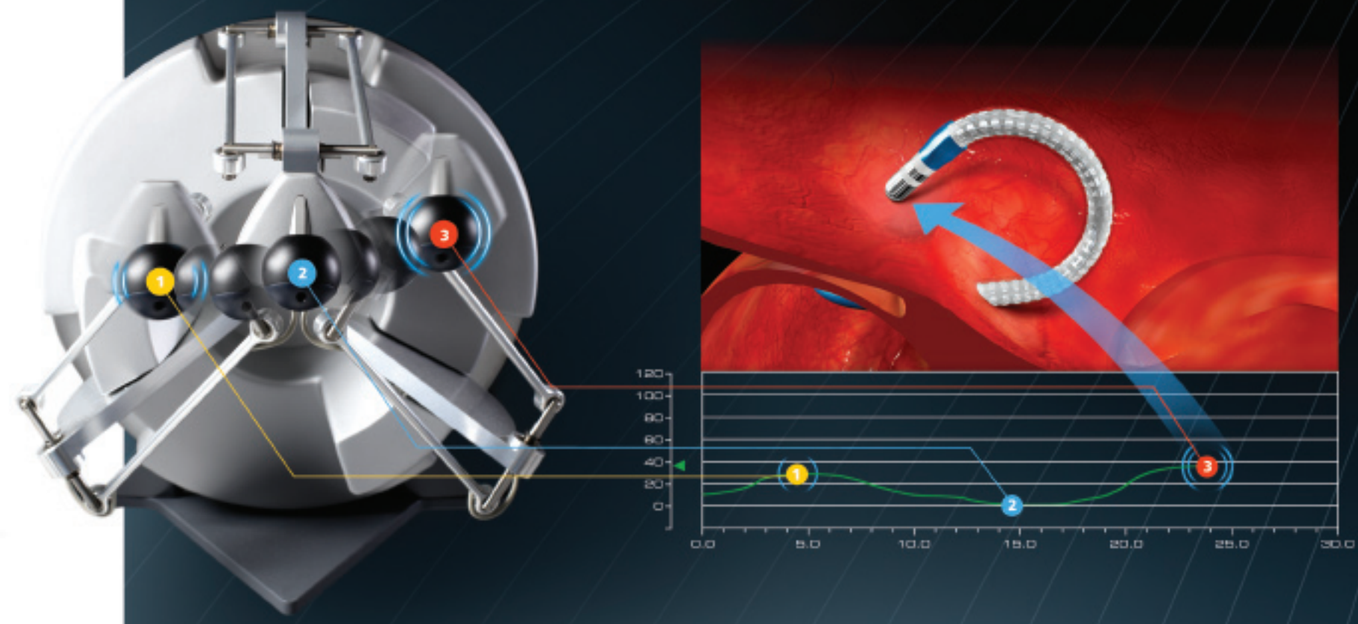
X-tend Your Vision

The CoHesion™ 3D Visualization Module combines the accuracy of 3D catheter control with the visual guidance of 3D electro-anatomical mapping, a synergistic technology combination that realizes the full potential of instinctive motion. Physicians use the anatomic data of the 3D on-screen map as a guide for their hand motions. The Instinctive Motion Controller (IMC) is moved in the direction of the desired anatomic target, and the Artisan Extend™ Catheter replicates that hand motion inside the patient's heart.

- Reduces procedure and fluoroscopy times as evidenced by physician data
- Alternate view options allow you to choose the most effective orientation
- Advanced navigation features are designed to shorten the robotic learning curve and improve the procedure workflow

IntelliSense®

Fine Force Technology



X-tend Your Senses

IntelliSense® Fine Force Technology with Tactile Vibration measures fine forces on the proximal end of the catheter—an important advance because evidence suggests a link between force ablation, lesion quality and safety.[1-3] And IntelliSense technology now includes a tactile vibration feature so the user feels a measurement of the force through vibration of the IMC. IntelliSense technology utilizes advanced processing to ignore frictional drag forces and discern small variations in force in order to provide reliable feedback delivered in clear, instinctive tactile and visual formats.

1. Di Biase L, Natale A, Barrett C, et al. Relationship between catheter forces, lesion characteristics, "popping" and char formation: experience with robotic navigation system. *J Cardiovasc Electrophysiol* 2009;20:436-440.

2. Okumura Y, Johnson S, Packer D. An analysis of catheter tip/tissue contact force-induced distortion of three-dimensional electroanatomical mapping created using the Sensei robotic catheter system. *Heart Rhythm* 2007;4:S318.

3. Al-Ahmad A, Garg A, Bergman D, et al. Relationship between catheter force and lesion size in an in-vivo animal model. *Heart Rhythm* 2007;4:S13.

X-pand Your Capabilities

Ergonomic Sensibility

- Remote placement in the cath lab allows you to remain seated throughout the procedure
- Provides a virtual shield from harmful direct radiation
- Increases physician comfort and lessens operator fatigue

Operational Sensibility

- No specialized room construction required
- Initial installation requires only a matter of hours
- Mobile system can serve multiple procedure rooms
- Available for a fraction of the cost of other catheter navigation systems

Economic Sensibility

- Updatable platform to ensure the ongoing value of your investment
- Enhanced warranty and flexible service plans protect your technology platform from obsolescence
- Flexible platform designed to incorporate future technologies that may expand treatment options

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The Global Leader in Flexible Robotics

For more information on X-tending your robotic capabilities, contact your Hansen Medical representative or visit **www.hansenmedical.com.**