The VAD of Choice
The HVAD® System allows heart failure programs to treat a broad range of patients, improve patient survival and enhance quality of life. This makes the HVAD System the VAD of choice for heart failure programs around the world.

HVAD System Implantables

**HVAD® PUMP**

**General Characteristics**
- Continuous flow
- Displaced volume = 50 cc, Weight = 160 g
- Device size and integrated inflow cannula allow for pericardial placement, which eliminates the need for abdominal surgery and device pockets
- Can provide up to 10 L/min of flow*

**Impeller**
- Magnetically and hydrodynamically suspended
- Wide-bladed
- Operates at speeds ranging from 1800 to 4000 rpm
- Provides multiple blood flow paths

**DRIVELINE**
- Percutaneously connects the HVAD pump to an external controller
- Length = 119 cm
- Diameter up to 4.8 mm
- Constructed with conductor wires similar to those used in pacemakers
- Six individually insulated, fatigue-resistant cables, each encased within a silicon lumen with an outer sheathing
- Contains a portion that is wrapped with woven polyester fabric to encourage tissue in-growth

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Market Approvals
European Commercial approval in January 2009.
US ADVANCE Bridge-to-Transplant (BTT) approval in November 2012.
Canada Bridge-to-Transplant (BTT) approval in April 2015.
WARNING: Serious and life threatening adverse events, including stroke, have been associated with use of this device. A user must fully consider the risks of this device with that of other treatment modalities before deciding to proceed with device implantation. In the USA the HVAD System is intended for use as a bridge to cardiac transplantation in patients who are at risk of death from refractory end-stage left ventricular heart failure.

CAUTION: Federal Law (USA) restricts this device to sale by or on the order of a physician. Refer to the “Instructions for Use” for complete Indications for Use, Contraindications, Warnings, Precautions, Adverse Events and Instructions prior to using this device.

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