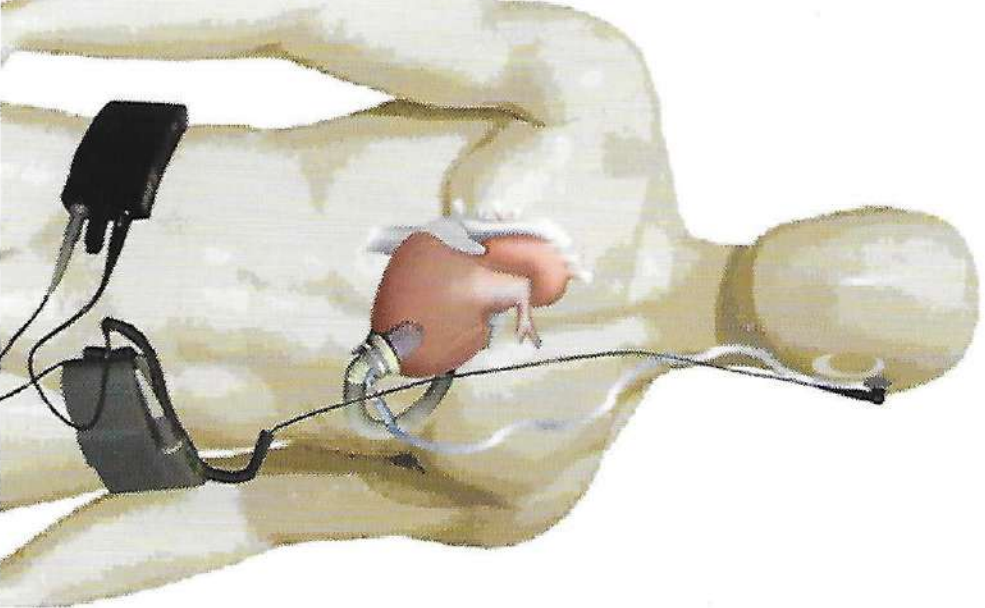


# Post-Auricular Connector

## *Unique, patient-friendly driveline*

The Jarvik 2000 with the post-auricular connector provides a percutaneous connection that is virtually carefree, allowing unmatched freedom for even the most active of patient lifestyles. The post-auricular connector has extremely high reliability and very low infection rates compared to published results of traditional abdominal drivelines used with other VADs. Care for the post-auricular connector does not require sterile supplies, sterile procedures, special dressings, or cable support belts.



# Enhanced Quality of Life

## *Enables a truly active lifestyle*

The Jarvik 2000 manual controller allows patients to set their own pump speed for personalized performance. They can bathe and shower normally and can even swim without covering the cable exit site. One such patient (see below) in France frequently took long walks with his dogs while hunting and enjoyed much international travel with his wife. He was supported by his Jarvik 2000 for more than nine years before being transplanted.

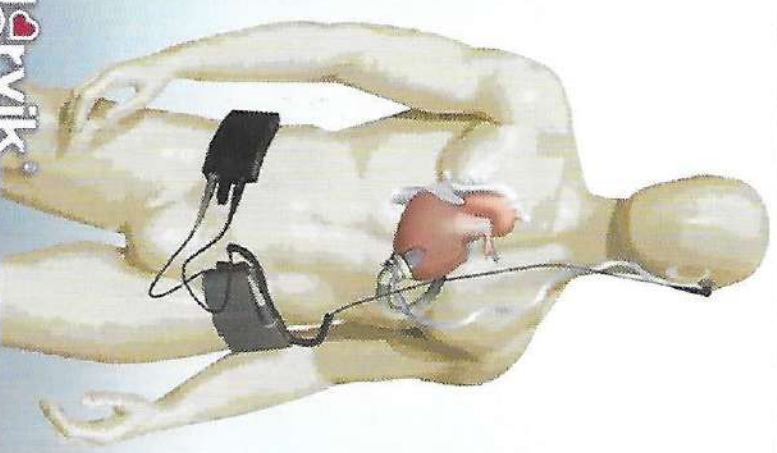


# 15 Years of Improvement

## *Developments based on long clinical experience*

The Jarvik 2000 was introduced in the year 2000 and has evolved into the Jarvik 2000 Post-Auricular VAS, incorporating many unique and time-tested features. They include blood-friendly cone bearings, an ILS control mode, a unique patient-friendly non-abdominal driveline, and a sintered titanium microsphere coating for a stable interface of the titanium pump to the apical myocardial tissue. **Note: In the US, the Jarvik 2000 Post-Auricular VAS is available only for clinical investigation.**

# Jarvik™



Jarvik 2000 and beyond...



CE Mark 2005  
Japan Shomin 2013

Note: In the U.S. the Jarvik 2000 Post-Auricular VAS is available only for clinical investigation.

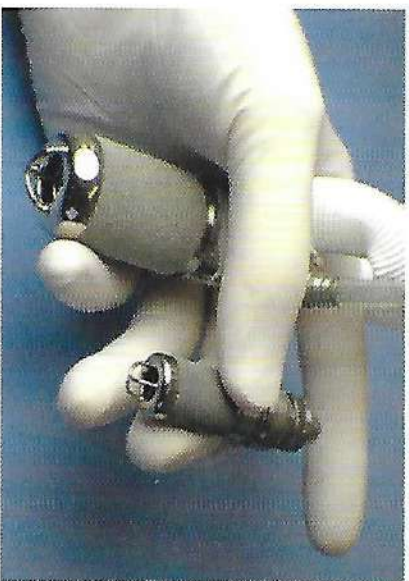
# Unique Cone Bearings

## *Proven durability in clinical trials*

The Jarvik 2000 creates blood flow by rotating a single moving part, the rotor, which carries the impeller blades. The rotor is supported at each end by ceramic bearings. The cone bearing design minimizes the thrombus risk compared to the original pin bearing design. More than 400 cone bearing Jarvik 2000 VADs have been implanted to date with no failures. Ongoing bench tests project durability in excess of 20 years.

## Research and Development

### *Jarvik 15mm in Pediatric Clinical Trial*



## Global Distribution:



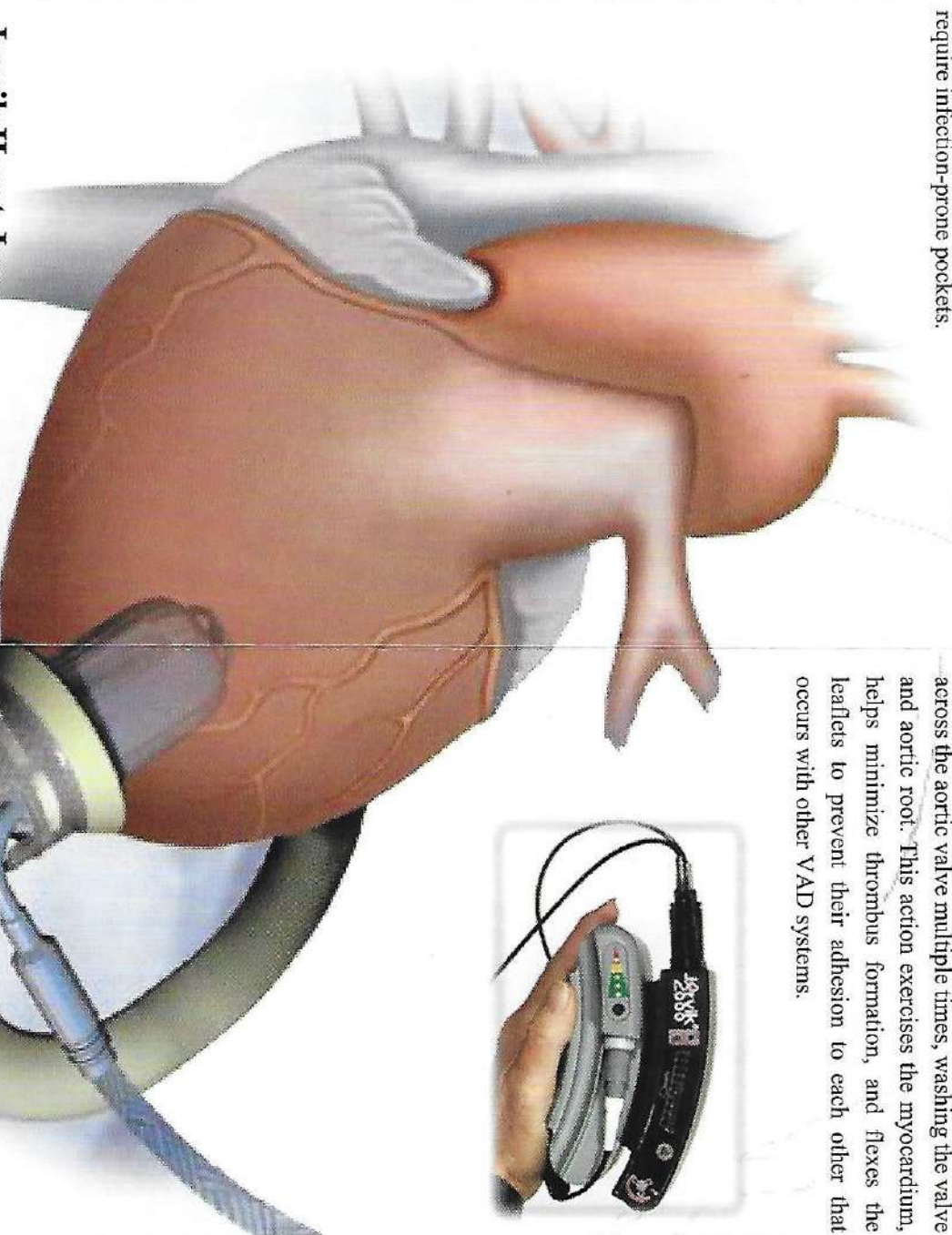
USA

Jarvik 2000 and Jarvik 15mm in Clinical Trials

# Intra-Ventricular Implantation

## *No VAD pocket*

The intra-ventricular placement of the blood pump avoids the requirement for a pump pocket, either abdominal or outside the apex. This contributes to the extraordinarily low pump infection rate compared to other VADs, which require infection-prone pockets.



# ILS (Intermittent Low Speed)

## *Promotes aortic valve opening and washout of the aortic root*

The Intermittent Low Speed mode (ILS) reduces the pump speed to about 7000 rpm for 8 seconds per minute. During this period, the natural heart fills and ejects across the aortic valve multiple times, washing the valve and aortic root. This action exercises the myocardium, helps minimize thrombus formation, and flexes the leaflets to prevent their adhesion to each other that occurs with other VAD systems.



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