

# St. Jude Medical® Masters Series

Mechanical Heart Valve



## THE MASTERS SERIES

Three decades of clinical experience. One-thousand-plus peer-reviewed journal articles. More than 1.9 million implants worldwide. The St. Jude Medical mechanical heart valve has consistently demonstrated excellent results with low complication rates in the aortic and mitral positions making it the gold standard of mechanical heart valves.

### Highlights

- Standard valve first implanted in 1977
- Pyrolytic carbon leaflets and orifice ring offer exceptional durability and increased thromboresistance<sup>1</sup>
- 85° leaflet opening angle offers improved laminar flow and reduces turbulence<sup>2,3,4</sup>
- Sewing cuff contains additional suture markers for more accurate placement
- Radiopaque for improved visualization during X-ray and fluoroscopy
- Controlled torque rotation mechanism that allows for easy rotation and intraoperative adjustment
- St. Jude Medical heart valves are MR conditional<sup>5</sup>

### Masters Series



*Available in mitral position*



*Available in aortic position*



**ST. JUDE MEDICAL**  
MORE CONTROL. LESS RISK.

References:

1. Emery RW, Krogh CC, Arom KV, et al (2005) The St. Jude Medical cardiac valve prosthesis: a 25 year experience with single valve replacement. Ann Thorac Surg 79:776-783.
2. Shipkowitz T, Ambrus J, Kurk J, Wickramasinghe K. Evaluation Technique for Bileaflet Mechanical Valves. J Heart Valve Dis. 2002, Mar; 11 (2):275-282.
3. King, M, David T, Fisher J. An Initial Parametric Study on Fluid Flow Through Bileaflet Mechanical Heart Valves Using Computational Fluid Dynamics. J Eng Med 1994: 208:63-72.
4. Zhonggang F, Takao N, Tetsuo F, Mitsuo U. In Vitro Investigation of Opening Behavior and Hydrodynamics of Bileaflet Valves in the Mitral Position. Artificial Organs 2002;26(1):32-39
5. MRI Safety Document – St. Jude Medical Valves and Annuloplasty Rings During MRI. Available on St. Jude Medical Web site at <http://www.sjm.com/documents/resources/safetyduringmri.pdf>.

ATRIAL FIBRILLATION    CARDIAC RHYTHM MANAGEMENT    CARDIAC SURGERY    CARDIOLOGY    NEUROMODULATION

**St. Jude Medical, Inc.**  
**Global Headquarters**  
One Lillehei Plaza  
St. Paul, MN 55117  
+651 483 2000  
Telex 298453  
+651 766 3045 Fax

**St. Jude Medical**  
**Coordination Center BVBA**  
The Corporate Village  
Avenue Da Vinci laan, 11 - Box F1  
B-1935 - Zaventem, Belgium  
+32 2 774 68 11  
+32 2 772 83 84 Fax

**St. Jude Medical Brasil, Ltda.**  
Rua Frei, Caneca 1380-9° A-CJ91/92  
Sao Paulo - SP - Brasil  
CEP 01307-002  
+55 11 5080 5400  
+55 11 5080 5423 Fax

**St. Jude Medical (Hong Kong) Ltd**  
Unit 2701-07, COSCO Tower  
Grand Millennium Plaza  
183 Queen's Road  
Central, Hong Kong  
+852 2996 7688  
+852 2956 0622 Fax

**24 hour Technical/  
Professional Consultation**  
Tel: (800) 328-9634  
(USA) (651) 483-2000  
Fax: (651) 482-8318

**Customer Service**  
(800) 544-1664  
(USA) (651) 490-4410  
Fax: (651) 481-7702

[sjm.com](http://sjm.com)



St. Jude Medical prosthetic heart valves are indicated for use as replacement valves in patients with a diseased, damaged, or malfunctioning native or prosthetic valve. Possible side effects for all valvular implants include, but are not limited to: regurgitation, thromboembolic phenomena, resistance to flow, infection, hemolysis, dysrhythmias, and prosthetic dehiscence or failure. Anticoagulation is recommended for patients with mechanical valve implants. Please see the physician's manual for a full description of indications, contraindications, side effects, precautions, warnings and instructions for use.

CAUTION: FEDERAL LAW RESTRICTS THESE DEVICES TO SALE BY OR ON THE ORDER OF A PHYSICIAN OR PROPERLY LICENSED PRACTITIONER.

Unless otherwise noted, <sup>TM</sup> indicates that the name is a trademark of, or licensed to, St. Jude Medical or one of its subsidiaries.

ST. JUDE MEDICAL, the nine-squares symbol and MORE CONTROL. LESS RISK. are trademarks and service marks of St. Jude Medical, Inc. and its related companies. ©2009 St. Jude Medical. All rights reserved.

Printed in Belgium. Item No: GMCS111EN