MEDICAL ENGINEERING TECHNOLOGIES

TECHNICAL AND SCIENTIFIC SOLUTIONS

Catheter Test Equipment Specification

Interventional catheter testing is carried out on the IDTE 2000, hydrodynamic test bed for navigational systems. This equipment is designed for testing to ASTM F2394 - 07 *Standard Guide for Measuring Securement of Balloon Expandable Vascular Stent Mounted on Delivery System*, ISO Standard 25539-1:2003 *Cardiovascular Implants - Endovascular Devices* and ISO/TS 15539:2000 *Cardiovascular Implants - Endovascular Prostheses.*

Test Equipment Specifications

Adjustable test track 2D and 3D, temperature maintained +/-2^{O}C
Adjustable flow control through test catheter
Low friction, bidirectional stepper motor system, max speed 600cm min^{-1}
High resolution encoders
Integrated video capture
Incremental and continuous rotational torque testing
Can be combined with fatigue/durability testing and stent testing services

Test Parameters

Guidewire Movement
Insertion Force
Rotational Response
Track Force Measurement
Torquability
Flexibility
Push Efficiency
Torque to Failure
Withdrawal Force Measurement

Typical Products Tested

Abdominal Aortic Aneurysm Grafts
Annuloplasty Rings
Cardiac Defect Occluders
Endoscopic Devices
Heart Valves, stented and unstented
Pacemaker Delivery Systems
PCTA Balloons and Delivery Systems
Vascular Grafts
Ablation Products
Bifurcation Supports
Distal Protection Devices
Guidewires, all sizes and functions
Neurological Products
Stents, all materials and coatings
Thrombectomy Devices
Vena Cava Filters

Medical Engineering Technologies Ltd • Yew Tree Studios, Stone Street, Stanford North, Ashford, Kent, TN25 6DH, UK
t +44 (0)8454 588924 f +44 (0)1303 813952 e solutions@met.uk.com www.met.uk.com

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