

Computer control Bone Screw Torque Testing Machine

KASONTTEST



Features:

Test and study of metal bone screws for screw orthopedic implants, absorbable bone torque, fracture torsion angle.

Orthopedic implants with different thread types (deep thread, shallow thread, full thread, half thread, symmetrical thread, asymmetric thread), different orthopedics implants with thread codes and nominal diameters (HA / HB / HC / HD1.5-8.0mm).

Orthopedic implants for different purposes (cortical bone screws, cancellous bone screws, cannulated screws); orthopedic implants with different rotation forms (slotted slot, cross slot, hexagon socket, square slot, inner triangle, plum shape); different Head type orthopedic implants (conical head, spherical head, semi-circular head, square head).

Orthopedic implants of different materials (metallic materials / stainless steel bone screws, absorbable bone screws, polylactide copolymers, L-lactide resins, glycolide resins, L-lactic acid resins, rigid polyurethane foams, hydrolytic degradation polymerization Resins, copolymers);surgical implant ; non-active surgical implant , non-active surgical implant for osteosynthesis;

Test standards:

YY0341-2009:General technological requirements for non-active metallic surgical implants for osteosynthesis

YY0018-2008:Implants for osteosynthesis. Metallic bone screws

YY/T0662-2008 《Implants for surgery. Metal bone screws with asymmetrical thread and spherical under-surface. Mechanical requirements and test methods》

YY/T0727.1-2009Implants for surgery. Metal intramedullary nailing systems. Part 1: Intramedullary nails

YY/T0509-2009(ASTM F2502) 《Standard Specification and Test Methods for Bioabsorbable Plates and Screws for Internal Fixation Implants》

ISO 6475 《Implants for surgery — Metal bone screws with asymmetrical thread and spherical under-surface — Mechanical requirements and test methods》

ISO5835: 《Implants for surgery — Metal bone screws with hexagonal drive connection, spherical under-surface of head, asymmetrical thread — Dimensions》

ISO9268: 《Implants for surgery — Metal bone screws with conical under-surface of head — Dimensions》

ASTM F543: 《Standard Specification and Test Methods for Metallic Medical Bone Screws》

ASTM F116 《Standard Specification for Medical Screwdriver Bits》

Main Specifications

1	Maximum Torque	50N.m;
2	Torque Test Range(F·S)	2%-100%F.S
3	Torsional Angle value relative error (%)	$\leq \pm 1\%$; / $\leq \pm 0.5\%$
4	Torsion Angle	$0^\circ \sim 100000^\circ$ (Or infinite angle)
5	Torsion angle resolution	$0.01^\circ / 0.0001^\circ$
6	Torsional speed	1-1000°/min adjust
7	Torsional speed relative error (%)	Within $\pm 1\%$
8	Chuck spacing effectively (mm)	0-300mm(could be customized)
9	Spindle center height	170mm
10	Power	0.4kW

FOCUS IN MATERIAL TEST

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