

Axial/Torsional Test Systems



Introduction:

Mainly used to test the torsion strength of medical bone nails, insert torsion and remove torsion, axial tensile strength and self-tapping performance testing.

Simple multi-axis testing is often necessary to test the performance of a variety of devices such as pharmaceutical and surgical products, electronic components, and packaging.

Across all industries, the development of new products and materials demands stringent standard-based and functional testing with a need for increased breadth of capability in testing equipment. For example, some of these standards, such as such as ISO 80369 for lure connectors, requires that the test is performed with both axial and torsion control.

Standard:

Standard ISO 6475:1989 《Implants for surgery-Metal bone screws with asymmetrical thread and spherical under-surface-Mechanical requirements and test methods》

ASTM F543-02 《Standard Specification Test Methods for Metallic Medical Bone Screws》

Specifications:

Model	KASON-WLN
Torque Range	±5N.m

Torque Accuracy	Less than 0.5% F. S
Speed Accuracy	0.01 mm/min
Torsion Speed	1 Rev/minute to 30 Rev/minute or Free adjustable
Speed Accuracy	0.01 mm/min
Torsion Angle Accuracy	±0.2 Degree
Torsion Angle Sensor Measurement Range	9999 degree
Axial Foree Load Cell Capacity	200N
Load Cell Accuracy	Less Than 0.5% F.S.
Load Cell Resolution	0.01 N
Effective Machine Travel	Standard 160mm 400mm (optional)
Jigs for Metal Bone Screws Testing	ISO 6475:1989 ASTM F543
Software	Full licensed and free upgrade able
Power supply	220V, 50Hz