

AMTI

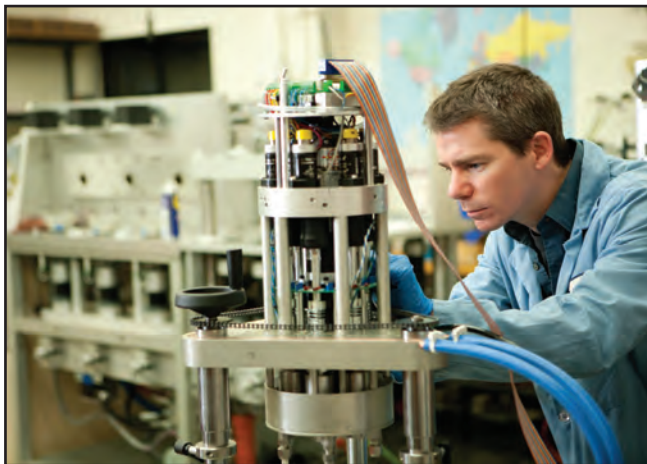
FORCE AND MOTION

AMTI
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VITAL STATISTICS

Year Founded: 1976
Number of Employees: 35
Number of Facilities: 1

WHO WE ARE



AMTI is the global leader in multi-axis biomedical testing machines and force sensors. Each year, more than 80 percent of the hip and knee implants produced are manufactured by companies that rely on AMTI for the critical phases of implant evaluation. We are dedicated to ensuring quality compliance from design to delivery through our ISO 13485:2003- and ISO 9001:2008-certified total quality management program.

SERVICES OFFERED

AMTI manufactures multi-axis testing machines and force sensors that help companies evaluate the design and materials of orthopedic implants. Our joint wear simulators can precisely replicate the movement of hips, knees, spines, shoulders, ankles, and small joints. Our multidirectional pin-on-disc machine is capable of replicating the complex motions essential for accurately simulating the in vivo wear of polyethylene orthopedic implants.



Some key features of our joint motion simulators include:

- We have designed our simulators with the ability to exceed relevant ISO and ASTM standards, allowing for the replication of **activities of daily living (ADLs)**, such as running, deep knee bends, and even swinging a golf club.
- Our unique Adaptive Control Technology is enabled with a single click and tunes the machine's performance to **levels of accuracy not obtainable through manual tuning**.
- The AMTI knee simulator provides **unparalleled test fidelity** through its patented* Virtual Soft Tissue (VST) control. This revolutionary technology eliminates the need for mechanical springs by using an advanced software model to incorporate the constraining influence of the soft tissue that surrounds the knee. VST allows for the inclusion of nonlinear and asymmetric force displacement characteristics, which occur in vivo but cannot be recreated with conventional methods.
- **Microseparation** capability is included in all hip simulation stations.
- AMTI **six-axis load cells** are integrated into every test station on the machines.
- All test stations utilize **physiologically correct** configurations.
- Each simulator arrives completely configured for **all applicable ISO and ASTM** tests.

* US Patent # 7823460

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