

Technology

Keiai's technology

Keiai's 'technology' passed on by the finger tips

A variety of precision instruments are arrayed in our factory. Extremely precise technologies are required to build a superior orthopedic appliance for human use. Some appliances involve more than 40 processes and several months of work to be completed. However, the ultimate process always depends on the sensitivity of our craftsmen. However advanced the production machinery may be, every engineered product has its own distinctive character, however subtle or refined.

It has been, and always will be, only human technology that can differentiate and maximize the quality of such products at the micro level, producing superior finished products. Under the leadership of our craftsmen, with a combined 40 years' experience, young staff members work as a team to master this special form of technology, day after day, without fail, to build Keiai products of the highest quality.

Keiai-developed ISO certified medical step testing machines

- (1) Artificial leg structure repeated-load strength testing machine
4 units, Number of testable samples per test: 6
- (2) Artificial foot region and foot joint repeated-load strength testing machine
1 unit, Number of testable samples per test: 2
- (3) Image dimension measuring system: 1 unit, with calibration certificate
- (4) Shore scleroscope (with NK verification): 1 unit of each
Asker durometer, Type A (for standard rubber (normal hardness) and soft plastics)
Asker durometer, Type C (for soft rubber, sponge, and other foam elastomers)
Asker durometer, Type D (for hard rubber (high hardness) and plastics)
Asker constant loader for durometer

Precision, the latest technology

In addition to two units of special machining equipment, we have introduced the latest tridimensional three-axis machining equipment. We consistently make the utmost effort to improve our technology and precision, while promoting technology transfer from our experienced craftsmen to our younger staff members.

Hand processing

Many processes can only be performed with the sensitivity of craftsmen's hands, such as 'deburring' and 'straightening' with file and hammer, the scraping of aluminum, and the shaping of a foot print.

Quality control system

We conduct the final quality check on our finished products using a special projection testing machine, which enables us to ensure quality faithful to the original product design with absolute accuracy.

ISO certification

We conducted three million hardness tests to receive our ISO certification. Though no clear standards exist for the hardness of appliances, we are at the forefront of the industry in establishing such standards, by developing our own dedicated testing machines.

