**TiMS**

**Continuously evolving analysis versatility and
expanding the scope of analysis**

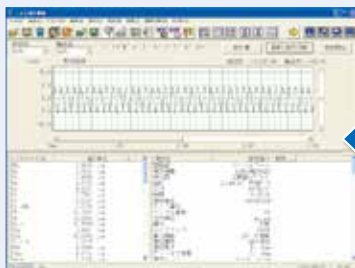


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TiMS Integrated Measuring System Software

TiMS performs measurements, analyses and evaluations of data on roundness measuring instruments. Its easy-to-use interface allows measurement and analysis conditions to be specified quickly and easily. Graphical representations of surface profile characteristics for bearing area curve (BAC), power spectrum curve, Fourier analysis are provided.

Integrated Measuring System

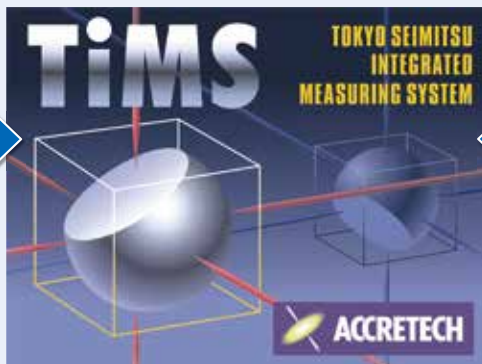


Easy operation

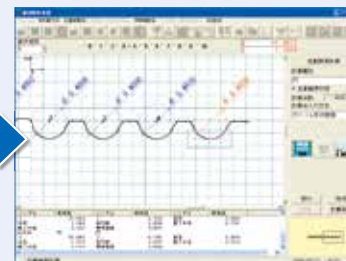
Various functions such as AI function, customize function and auto measuring range expansion function reflect ACCRETECH's commitment to developing measuring tools that are easy to use and understand.

TiMS

TiMS is short for "TOKYO SEIMITSU Integrated Measuring System". It is an advanced system that provides unrestricted access to data produced by our measuring instruments. TiMS is currently used by a large number of satisfied customers all over the world.



TiMS Software

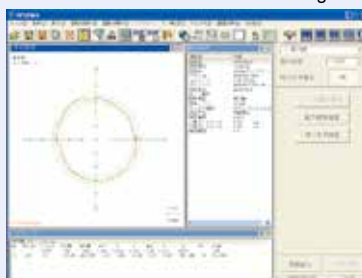
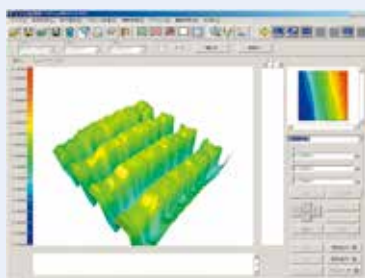


High efficiency measurement

A wide range of functions are provided to facilitate highly efficient measurement such as a teaching/playback function for full automatic measurement, multitasking for parallel processing, high speed alignment and much more.

Each program is linked to icons

Designed to maximize performance and efficiency, the system provides measuring windows for each instrument, enabling you to operate multiple units, easily switching between windows just by clicking icons.



Setting screen of measurement conditions



Measurement result analysis screen (Coaxiality)

Examples of Measurement Items



Roundness



Concentricity/
Thickness variation



Coaxiality/Shaft center
roundness

Centering/Tilting support function (patent pending)

*Standard equipment for R44DX3/SD3, R47B, R43C/41C/31C, R TOUCH

Our original algorithm simplifies troublesome centering and tilting operations.



Preparation

Measure the first and second sections of a workpiece.



Tilting adjustment

Adjust to match the tilt of the rotational axis of the workpiece and the rotational axis of the table.



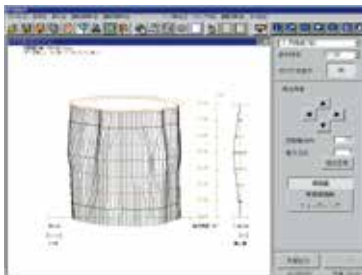
Centering adjustment

Adjust to match the rotational center of the workpiece and the table.

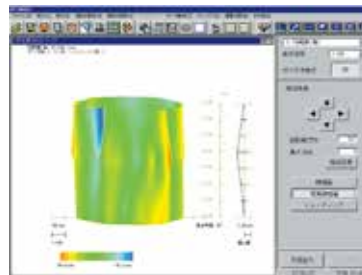
Visual representation of cylindrical profile

Cylindrical profiles are analyzed visually and viewpoints can be moved to any location.

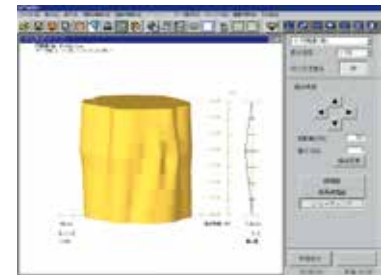
Contour line and shading displays clearly identify defects such as shrinkage of a plastic product or deformation of a pressed part.



Cylindrical form (3D profile display)



Cylindricity (Contour line display)

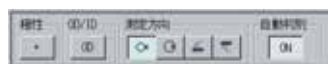


Cylindricity (Shading display)

Easy operation

• Rearrangement of icons

Customizing and/or hiding icons as needed enhances operability.



• Automatic recognition of measuring direction

The system automatically recognizes the setting of a pickup measuring direction.

• Automatic magnification calibration function (patented)

Teaching/Playback function (patented)

Once a measuring procedure (including the alignment operation) has been registered, everything from measuring to printing can be performed automatically.

Optional programs

Gear analysis (patented)

The peaks of notches in a workpiece are connected in order to perform roundness analysis.



Piston profile analysis

Design value collation can be performed for oval and barrel profiles. Value data for each angle or numeric expression can be used as design values. Evaluation of ring groove tilt and waviness is also available.



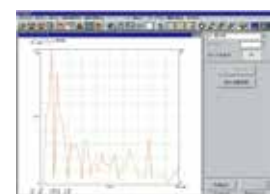
Oval profile



Barrel profile

Power spectrum/Fourier analysis

Analysis of peak components in a roundness profile enables noise and vibration evaluations. The power spectrum graphically shows the strength of each amplitude component (which have different frequencies in roundness profiles). A Fourier transform of extracted curves is provided for analysis of periodicity in waveforms.



Power spectrum

Bearing area curve/Amplitude distribution function

By analyzing surface characteristics of a workpiece using the bearing area curve and/or amplitude distribution function, you can assess its wear and life expectancy.



Bearing area curve display