The first in the world!



High Temperature Superconductivity Type VSM

The world's first* of one-twentieth of measurement speed is realized compared to this company's existing product by adopting high temperature superconductivity magnet to VSM.

Br, HcJ high accuracy measurement of 0.5 mm cube magnet becomes possible.

* Investigated as of July, 2014 by Toei Industry Co., Ltd.

Examples of Result of Measurement





 $\mathsf{NdFeB}(\mathsf{sint.})\,1\,\mathsf{nm}$ cube BH curve by means of high temperature superconductivity VSM







Realization of High Speed Measurement

High speed measurement is realized by adopting high temperature superconductivity magnet. Hmax = 6Tesla, Full Loop measurement becomes possible in 2minutes.

New

(This company's existing machine:

Full Loop measurement needs 40 minutes.)

High Accuracy Measurement of Small Sample of Br, HcJ

High accuracy measurement of Br, HcJ of 0.5 mm cube magnet, intensity distribution etc. of Br, HcJ and comparative measurement of micro-changed amount by cutting out surface reforming area become possible.

Also, comparative measurement of finishing degradation becomes possible.

FORC&SORC Measurement

Evaluation of interaction between particles and coercive force distribution (particle diameter) becomes possible.

Sample Temperature Variable Measurement

 -50° C ~ $+200^{\circ}$ C temperature variable UNIT(Option)

Miniaturization of Magnetic Field Generation part

Size of magnet system part: 0.8 x 0.3 x 0.3 m

THE Toei Industry Co., Ltd.

http://www.toeikogyo.co.jp

8-13, 1-chome, ,Tadao Machida City, Tokyo, 194-0035 Japan TEL:042-791-1211 FAX:042-792-0490 E-mail:sales@toeikogyo.co.jp