

※ Please contact us regarding supported countries other than those listed above.

Futaba Sensing School

Learn about **In-Mold Sensing**,
understand **the behavior of resin**

Useful Information

Information such as catalogs, instruction manuals and examples of utilization regarding the mold marshalling system is available on the product page.

▼ Product Information Site



<https://mms.mtb.futaba.co.jp/en/>



Futaba JTW (Thailand) Ltd.

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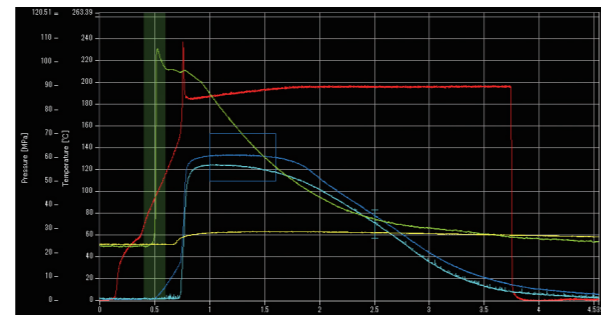
※ The contents of the leaflet are current as of January 2025.
The information contained herein is subject to change without notice.

What is the Mold Marshalling System?

Measurement system that improves quality and reduces costs in injection molding

MOLD MARSHALLING SYSTEM is a measurement system for injection molding that converts the behavior of the resin in the mold, which was previously a black box, into a signal or voltage using a sensor and a dedicated amplifier installed inside the mold, and outputs it as a waveform to PC or various measuring instruments in real time.

The digitized data can be utilized for various purposes, such as setting optimal injection molding conditions, automatic defect sorting, quality control and mold evaluation.



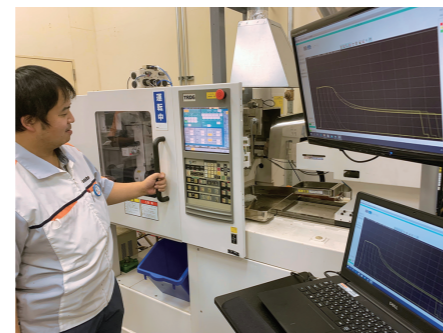
Measured Waveform

Characteristics of Futaba Sensing School

A curriculum where you can learn from the basics to practice of in-mold measurement techniques for injection molding

You will learn the basics of in-mold sensing, as well as a system installation and operational method, and waveform analysis. Using Futaba-owned molding machine and test mold, we will teach you practical "tricks" in sensing techniques that are not available in catalogs or on websites.

This program is highly recommended for those who are considering utilizing in-mold sensing, those who have already installed it but don't quite understand how to use it, or those who have not fully utilized it.



On-Site Training

Overview

Target

- (1) Those who have already installed or are considering implementing the system
- (2) New employee training using the system and on-site instructor training
- (3) Those who are engaged in injection molding and have little experience in using the system
- (4) Those who want to learn the basics of in-mold sensing
- (5) Others such as college students (research laboratories)

Location

Futaba JTW (Thailand) Ltd.

78 Moo 2 Wellgrow Industrial Estate, Bangan-Trad Road, Tambon Pimpa, Bangpakong District, Chachoengsao 24130 Thailand.

Training Cost

Free of Charge



Classroom Lecture



On-Site Training

Curriculum

Details of Lectures and Practical Classes

Lectures (3 hours)

- (1) The significance and purpose of measurement
- (2) Basics of pressure measurement (sensor selection, installation location, signal wiring)
- (3) Utilizing sensor (Understanding waveforms, injection molding conditions setting, injection molding monitoring)
- (4) First trial preparation and procedure
- (5) Measurement software and explanation of its functions
- (6) Troubleshooting
- (7) Repair, maintenance and calibration

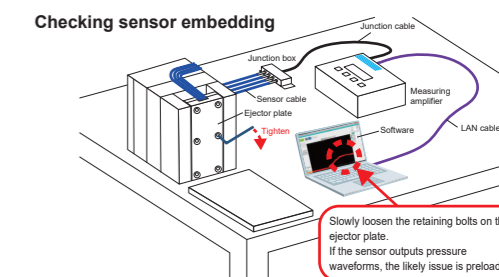
Practical Classes (3 hours)

- (1) Preparation of measurement
- (2) Sensor installation and wiring of the measurement system
- (3) Waveform observation and waveform analysis
- (4) Quality reproduction method using waveform matching
- (5) Alarm monitoring setting method

Example of real-world lesson and lesson flow

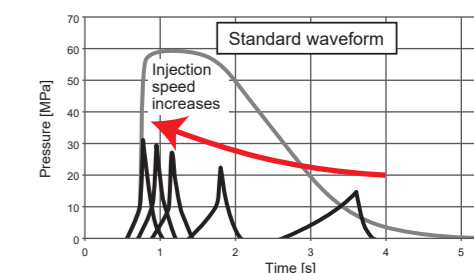
Recommended methods for checking when embedding pressure sensors in molds

Bench testing helps eliminate problems, like failure to obtain waveforms. Beginners unfamiliar with in-mold measurement or personnel located at overseas plant where support is difficult to obtain can learn these and other important skills for real-world use.



Reproducing quality matching waveforms using a rectangular test mold

One method for reproducing molded products involves reproducing pressure waveforms. Good quality can be achieved by matching waveforms on different molding machines. This method is suitable when gathering the conditions required for mass production.



How to take a course

Please find the below details to apply for a course. Your schedule will be determined after we receive your application.

Contact

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Register via LINE Application



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