

TOOL FOR "IoT"

CAST VIEWER®

This is a device to show waveform data of the voltage output from sensors.
Using sensors below enables "visualization" of casting defects.

【Pressure sensor】



In vacuum die casting, using pressure sensor enables to see if vacuum pressure inside of the die is appropriate. It removes gas porosity by inclusion.

【Stroke sensor】

【Pressure sensor】



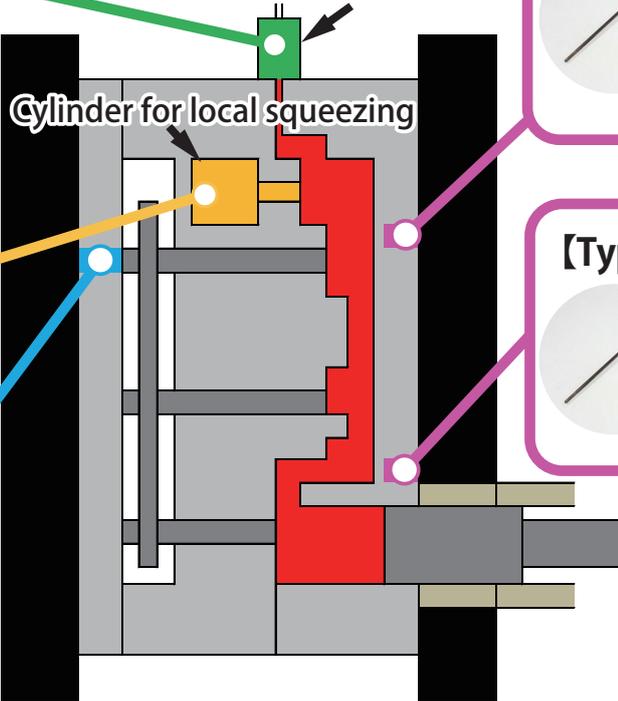
Cylinder attached with the sensors above monitors the amount of stroke for local squeezing. It removes shrinkage porosity.

【Load cell】

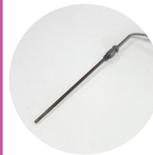


It monitors molten metal pressure. It removes shrinkage porosity and gas porosity by inclusion.

Vacuum die casting apparatus

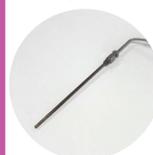


【Type K thermocouple】



It monitors if the cavity is in appropriate temperature. It removes soldering and galling.

【Type K thermocouple】



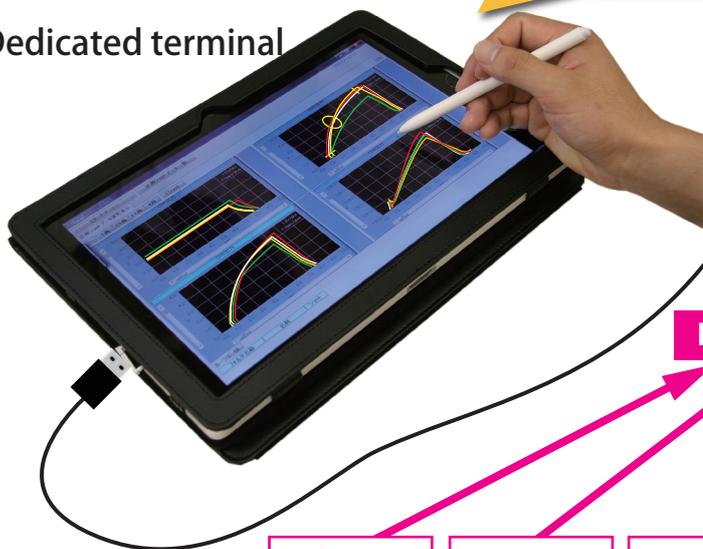
It monitors temperature of cavity and molten metal. It removes inside deficit.

Structure chart of CAST VIEWER®

Assisting "IoT" of casting

Dedicated terminal

It is possible to set acceptance range for 3 spots on reference waveform data, and the results is to be output "Pass" or "Fail" as relay signal.



ADC-unit

Input 8ch(DC 0~+10V)

Output 8ch(Relay signal)



Amplifier*1

Stroke sensor

Pressure sensor

Load cell

Type K thermocouple

Trigger signal

To robot or alarming system

Sensors which have voltage ranged from DC 0V to 10V and enables analog output can be applied. Depending on output form, it may be necessary to be attached with amplifier.

*1 : Option to purchase

NAMBU
Futuristic Technology

Inquiry

株式会社 南武

<http://www.nambu-cyl.co.jp>

TEL : +81-45(791)6161 (Rep)

FAX : +81-45(791)6162

E-mail: eigyo@nambu-cyl.co.jp