

EW – 8SCT

Advanced Eddy current component test instrument



What is eddy current testing (ECT) ?

Eddy current testing (ECT) is very reliable and productive electromagnetic testing method used in nondestructive testing (NDT) making use of electromagnetic induction to detect and characterize surface and sub-surface flaws in conductive materials.

Field of application

[Heat treatment test]

HT : Test and verify the quality and integrity of the heat-treated metal component.



- Hardness defect after heat treatment
- Missing heat treatment process
- Sorting of dissimilar materials with same shapes

[Crack test]

CT : Test and detect the micro-cracks on the surface of the metal component.



- Micro cracks on the surface
- Cracks after heat treatment
- Hot forging, cold forging cracks
- Cracks from various processing

[Tap test]

TAP : Test and verify the quality of the tapped area (thread) of the metal component.

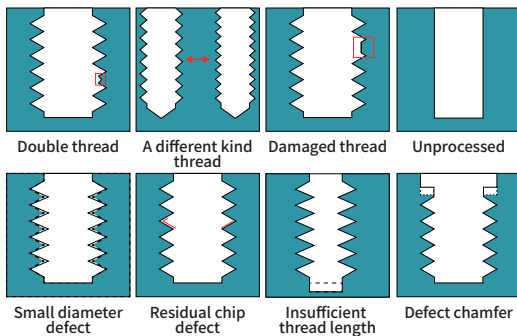


- Damaged thread, Double thread, A different kind thread, Unprocessed
- Small diameter, Residual chip
- Tread presence / absence detection
- Iron, non-ferrous (Aluminum, copper, sus, etc.)

[Composite test]

- Multipurpose unit
Heat treatment + tap + crack, Composite configurable

* Examples of defect



*Caution : Detecting cases may vary depending on the material and the shape of the tap processing parts.



[Eddy current test sensor]

EW – 8SCT



[Screen example]

Full-scale test

It is designed to operate at full production line speeds in tough manufacturing environments.

Multipurpose unit (CT + HT + TAP)

It is designed to mix up max. 8 channels with crack detection channels, structure test channels and tap detection channels and their combinations.

User friendly (very intuitive User Interface)

The intuitive UI allows the easy and simple operation via touch screen.

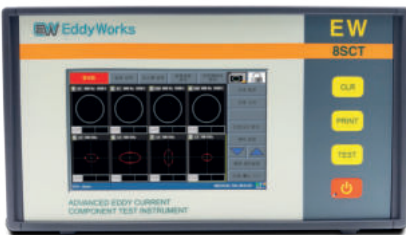
Multi channel set up (1ch ~ 8ch max.)

As the users require, multi channels can be set up max. 8 channels with any combinations needed.

Machine learning algorithm (convenient set up)

Users can simply scan and record an adequate number of good parts, and the initial setup will be ready within a few minutes.

Product Specification Sheet



Front



Rear

Model name	EW – 8SCT
Platform	Industrial Embedded (Fanless)
Channel Configuration	Crack, Heat treatment, Tap defect test / Basic 1 channel, Maximum 8 channel
Frequency range	Heat treatment, Tap test : 50Hz ~ 500MHz / Crack test : 1kHz ~ 10MHz
Frequency	Single variable frequency
Display	7 inch LED touch screen
Input / Output	I/O, LAN, USB, RS232
Size	320 x 170 x 270mm (W * H * D)
Weight	5.5kg
Power	100 ~ 240V / 50 ~ 60Hz, 50W
Usage Environment	Temperature : -5 ~ 48°C
Test record	Separate module manager (option)
Sensor break detection	Real-time monitoring



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