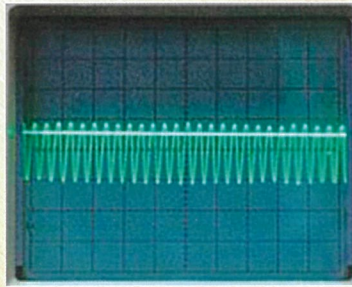
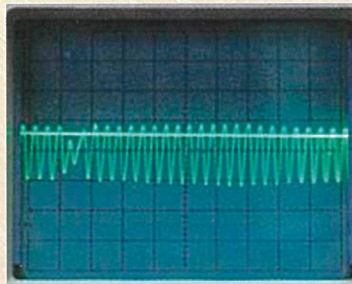


轉子斷槽測試機

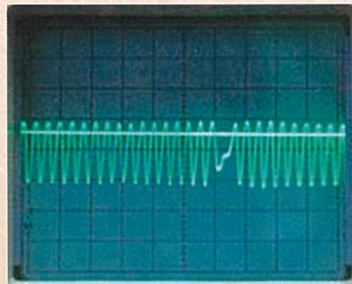
Rotor Tester for Die Cast Rotors (Model : ART-303)



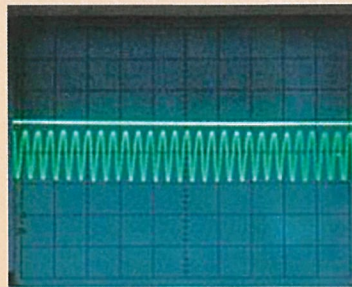
正常波形 (Normal)



灌注不良 (Poor filling)



斷槽波形 (Broken bar)



鋁棒斜角不良
(SKEW difference detection)
鋁材質不良
(Poor quality of aluminum alloy)

一、功能

1. 轉子斷槽判定檢出
2. 轉子實際槽數顯示
3. 鋁灌注不良檢出
4. 短路鋁棒斜角不適當及鋁材質不良
簡易型判定檢出(斜角 $\geq \pm 5^\circ$ 時可檢出)

A. Functions

1. Detection of broken bar
2. Display of the actual number of bars
3. Detection of poor filling of aluminum alloy
4. Simple detection of bar SKEW difference and poor quality of aluminum alloy (While SKEW difference $\pm 5^\circ$ could be judged)

二、檢測方式及操作安全

1. 自動測試方式：

- (1) 在人機介面基準檔上設定感應電壓上下限及轉子槽數。
- (2) 在人機介面測試畫面上使用標準品調整感應電壓為 1.000V 以及調整比較電壓。
- (3) 測試時，若實際槽數與設定槽數不符合或感應電壓超出上下限管制值，藉以判定是否有灌注不良、斷槽、鋁棒斜角不良或鋁材質不良情形發生。
- (4) 綜合上述判定轉子為良品或不良品。

2. 手動判定：按下手動啟動按鈕後，轉子連續運轉，使波形顯示在示波器上，由有經驗操作員判定。

3. 安全防護：設置光束柵欄，保護操作人員安全，試驗中若將手伸入機台內，轉子會自動停止運轉。

B. QC Method and operation safety

1. Automatic test mode:

- (1) Set up induced voltage high/ low limits and rotor target bar number on HMI base file.
- (2) Adjust induced voltage at 1.000V and set up compare voltage on HMI test page, based on the standard UUT.
- (3) During test, if there's different reading found other than actual bar number and target bar number, or induced voltage over high/ low limits. So as to determine the existence of broken bars or aluminum poor filling, and aluminum quality as well as SKEW difference detection.
- (4) Based on results from above tests, determine whether the rotor passes quality control.

2. Manual judgment: After pressing manual ON switch, the specimen will run continually. Experienced operators may judge from the wave form displayed on the oscilloscope.

3. Safety protection: A light curtain is equipped to protect the safety of the operators. The rotor will automatically stop when the light curtain is interrupted by any obstacles during test.

三、轉子適用規格

1. 轉子長度：40~120 mm
2. 轉子外徑：40~120 mm
3. 轉子內徑：Max. 42mm
4. 轉子槽數：Max. 64 槽(最重：5kg)

四、轉子驅動聯結方式

1. 有平衡塊之轉子採用平衡塊驅動
2. 一般轉子則採用葉片驅動
3. 若無平衡塊或葉片，採用軸心內擴方式驅動

五、電源及氣壓源需求

1. 電源:三相 220/380V 50/60Hz 1kVA
2. 氣壓源: 5kg/cm² 以上

六、外型尺寸

1. 儀器箱: 560(W)*610(D)*1650(H) mm
2. 機台: 560(W)*450(D)*850(H) mm

C. Rotor specification

1. Rotor length: 40~120mm
2. Rotor outer diameter: 40~120mm
3. Rotor inner diameter: Max. 42mm
4. Rotor slot: Max. 64 slots (Max. weight: 5kg)

D. Rotor drive connection

1. Using balancer drive adopted for the rotor with balancer.
2. Using blade drive adopted for the general rotor.
3. Inward expansion for rotor without balancer or blade.

E. Power supply and air supply

1. Power supply: 3 phase, 220/380V 50/60Hz 1kVA
2. Air supply: above 5kg/cm²

F. Equipment dimension

1. Control panel: 560(W)*610(D)*1650(H) mm
2. Test bench: 560(W)*450(D)*850(H) mm



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