BARNES INTERNATIONAL

# Magnetic Stripe Wear Tester

# WEAR-Tester 3000

## Ensures magnetic stripe durability meets industry standards to prevent unreliable cards being issued to the end customer

**SUPPORTED SPECIFICATIONS**

High (HiCo) and Low (LoCo) coercivity unencoded and encoded magnetic stripes related to:

- ISO/IEC 7811-2:2014
- ISO/IEC 7811-6:2014
- ISO/IEC 7811-8:2014
- ISO /IEC 10373-2
- JIS 6501 Type I and II
- JIS 6502
- Mastercard CQM 2.2
- Custom test limits can be set by the user.
- Other standards available as variants

Magnetic stripe appearance and readback unreliability due to wear and abrasion is a serious concern. Card Issuer image can be damaged by worn and unreadable magnetic stripes. Magnetic stripe cards must be tested to ensure compliance with ISO/IEC industry standards aimed at exposing weaknesses in magnetic stripe wear resistance.

The WEAR-Tester 3000 enables tests on all types of magnetic stripe cards and TFCs (thin flexible cards) in compliance with these exacting ISO/IEC standards.

*General view. Card loaded for test ISO/IEC Test Head carried in load arm*

## Solution Highlights

- A free-standing desk-top unit designed to enable automated testing to meet ISO / IEC requirements.
- Suitable for all types and sizes of magnetic stripe media, including cards, tickets, ATB and documents.
- Accurate abrasive test head loading; allows the user to set up the WEAR-Tester 3000 for test duration. Once initiated, the test is completed automatically.
- Perfect for any magstripe manufacturing, bureaux or QC environment to test cards prior to and during card issue.

*Test in progress (Lid normally closed for test)*

*Test Head moved aside for card loading*

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## THE BARNES ADVANTAGE

**Barnes is the chosen test tool of Banks & Issuers, Card Manufacturers, Personalisation Bureaux and Test Laboratories worldwide.**

**Here are some reasons why:**

### BUSINESS AGILITY

Barnes test tools are easy to use by both technical and non-technical users, and speed up card development and payment scheme certification.

### COST ELIMINATION

The high business costs and wasted resources of producing and issuing invalid cards are eliminated.

### RISK REDUCTION

The reputational risk of issuing invalid cards and tickets to end customers is reduced.

### FUTURE PROOFED

Barnes works in partnership with all major payment schemes. As scheme rules evolve, Barnes rapidly make updated test script packs available to customers via the Barnes website.

### SERVICE EXCELLENCE

Our clients have every confidence that whatever their test requirement, the Barnes team is always on-hand to deliver expert advice and fast support.

# Features

All the features of WEAR-Tester 3000 are designed to deliver ISO-IEC standard test-result accuracy to any magnetic stripe manufacturing, bureau or QC environment.

**ISO/IEC 10373-2:2006**
Defines test methods for the magnetic recording characteristics of identification cards according to the definitions given in base standards ISO/IEC 7811-2, ISO/IEC 7811-6 and ISO/IEC 7811-7.

**ISO/IEC 7811-2, 7811-6, 7811-8**
Specifies requirements for a high coercivity magnetic stripe (including any protective overlay) on an identification card, the encoding technique and coded character sets.

**ISO/IEC 15457**
Specifies the physical characteristics of thin flexible cards at the point of loading into the card issuing equipment and at the point of issue to the public.

**Dummy Head**
5 supplied meeting ISO 10373-2 requirements. Each dummy head is good for 15 (minimum) wear tests. Additional dummy heads can be made by the user or supplied by Barnes.

**Test Media**
ID1 size; TFC-1 size; Lateral (ISO) and Central stripe positions.

**Dummy Test Head/Stripe Loading**
Standard set at 1.5 +/-0.2 Newtons (ISO). Other loadings can be set by the user if desired.

**Wear Test Cycles**
Wear rate is 56 (nominal) cycles per minute. Test duration is controlled manually (a domestic mains timer is included).

**Wear Test Card Velocity**
**(With Respect to Dummy Head)**
24 - 40 cm/sec (ISO: 20 - 50 cm/sec).
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# Technical Specification

**Electrical**
220-240 Vac, 50Hz or 110-120 Vac, 60Hz.

**Power**
<150W

**Dimensions (cm)**
40 (Width) x 30 (Height) x 20 (Deep).

**Weight (Kg)**
14

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