

# Hashima Global Service Network

Hashima's needle detectors have been sold not only in Japan but also in 114 countries around the world, and we have established a global distributor network. For maintenance and service inquiries, please contact your nearest Hashima or authorized Hashima Agents.



Branch  
Partner

## Technical Seminar

We provide technical seminars for our customers such as apparel maker, trader, retailers, garments factories, inspection factories, etc. We hold a variety of workshops that meet the needs of our customers, such as basic knowledge of Needle Inspection, correct usage of machines, maintenance methods, and X-ray inspection systems that utilize AI. Please contact with our sales department.



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\*Specifications and performance are subject to change without notice due to product improvement.

WEB site



## Reference Documents for Hashima Needle Detector History

- HN-600C (1994~1997 manufactured)
- HN-610C, HN-620C, HN-730G (1998~2003 manufactured)
- HN-630C, HN-640C, HN-740G, HN-2630C (2003~2005 manufactured)
- HN-650C, HN-660C, HN-750G, HN-2650C (2005~2008 manufactured)
- HN-670C, HN-680C, HN-770G, HN-2670C (2008~2014 manufactured)
- HN-870C, HN-780G, HN-2870C, HN-2780G (2014~2019 manufactured)
- HN-880C, HN-790G, HN-2880C, HN-2790G (2019~Current manufactured)

Agent

<http://www.hashima.co.jp/>

# HASHIMA

## Hashima Needle Inspection Guide Book



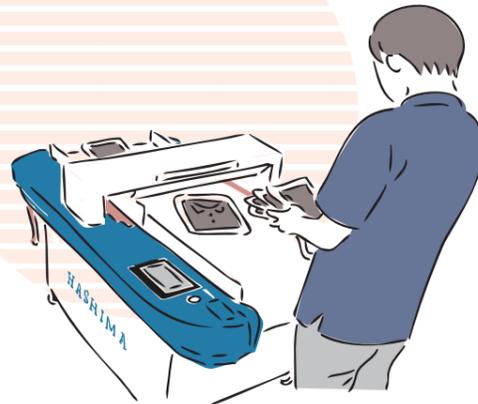
# Introduction

One of the many inspection processes in the apparel industry is needle inspection. We will explain the basic knowledge such as the purpose and method of Needle Inspection, which is indispensable in the apparel manufacturing process.



## What is Needle Inspection in the apparel industry?

With the exception of some non-sewn products, apparel products are sewn with a needle and thread, and the needle may break during sewing. There is also the possibility of forgetting to remove the setting needle, and the work of removing dangerous items such as needles left in these clothing items is called **needle inspection work**. In general, needle detection is performed using a conveyor-type needle detector and X-rays at the final stage of manufacturing. In addition to the sewing factory, there are cases where the product is also done at the distribution factory before it is displayed in the store, so double or triple checks are performed.



## What is the purpose of Needle Inspection?

Currently in the world, there is the **Product Liability Law**, and if there is a needle in the sewing product and the consumer is injured because of it, the producer will be held responsible. In addition, recalls by dealers can result in significant loss of costs and damage to the brand image. Therefore, it is necessary to face the perfect system before lining up in the store.



# Types and uses of Needle Detectors

## Conveyor Type Needle Detector

This is the most commonly used Needle Detector for apparel products. Products are placed on a moving conveyor and inspected automatically one after another, so the effect of mass production is high. Conveyor-type needle detectors are available in single-head type with one sensor head and two-head type with two sensor heads.

There are various types of needle detectors.



Reference Video



Single Head Type  
HN-880CS



Two Head Type  
HN-2880CS



Large Size Type  
HN-1380C

A large conveyor type needle detector for detecting the needles of bedding and bulky products.

## Handy Type Needle Detector

It is used to identify the location of broken needle in products that have detected a needle detection reaction with a conveyor type needle detector.

HN-30S



HN-35W



## Conveyor Type Metal Detector

It is rarely used for apparel products, and is used for needle inspection on knitted products, towels, blankets, shoulder pads, stuffed animals, etc. that do not have clothing accessories.

HM-6000



## Hanger Type Needle Detector

Automatically detect the clothes hanging on the hanger.

HN-1300H



## Table Top Type Needle Detector

It is also used to inspect missing setting needles and check accessories before attached.

HN-450N



## X-Ray Inspection Machine

It is a device that detects foreign objects mixed in clothing with images through X-rays. It is also used for clothes that cannot be passed through a needle detector, bags with metal accessories, and shoes with metal shanks. In addition, foreign objects other than metal are also subject to inspection.

HNX-S665NDS



# Inspection of Needle Detector

## About the correct installation of the Needle Detector

Do not install near moving large metal objects or equipment that generates or disturbs magnetism. Also, workers should not carry phones or large tools when working.



## Checking Needle Detector before Operation

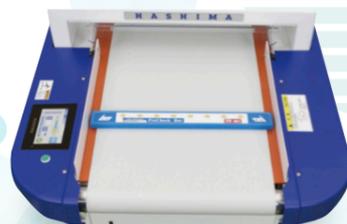
Be sure to perform the pre-work inspection before using the needle detector. A prescribed test piece is used to check whether the needle detector is working properly. Hashima's conveyor-type needle detector uses split coils to check whether each coil in the eight horizontal channels responds correctly. Hashima's needle detectors have slightly different inspection points in the pre-work inspection depending on the model and detection height. The inspection method is described in detail on the website.



Reference Website

## Checking Needle Detector by Auto PreChecker®

Auto PreChecker® is a new function that has been installed as standard from model 870C series so that the conventional start-up inspection can be performed more accurately and quickly. Pre-work inspection can be performed in about 1/5 of the conventional time. After that, run the test piece once at any position to check if the actual sensitivity is set correctly. Be sure to do this three times a day (before starting work in the morning, before starting work in the afternoon, and before starting work in the evening).



プリチェックテスト結果

	MAX	MIN	AVR	JUDGE
CH00	49996	49993	49995	OK
CH01	50005	50000	50004	OK
CH02	50010	50002	50008	OK
CH03	50009	49998	50005	OK
CH04	50015	50005	50012	OK
CH05	50015	50014	50014	OK
CH06	50016	50013	50014	OK
CH07	50007	49998	50005	OK
CH08	50007	49993	49996	OK
CH09	50002	49995	49998	OK



Reference Video

## Daily Maintenance for Needle Detector

Clean the belt daily. When not in use, protect the machine with a cover, etc.



# Annual Detailed Inspection for Needle Detector

## Detailed Inspection Service

In addition to regular annual inspections, we offer a detailed inspection service for HN-670C series and later models. This is a new precision inspection service that Hashima authorized engineers provide machine inspections equivalent to factory-levels. Automatic precision inspection of 125 locations within the detection area using a dedicated automatic inspection device. It also inspects the installation environment and operating conditions, which are important for the needle detector, and displays them in a graph.



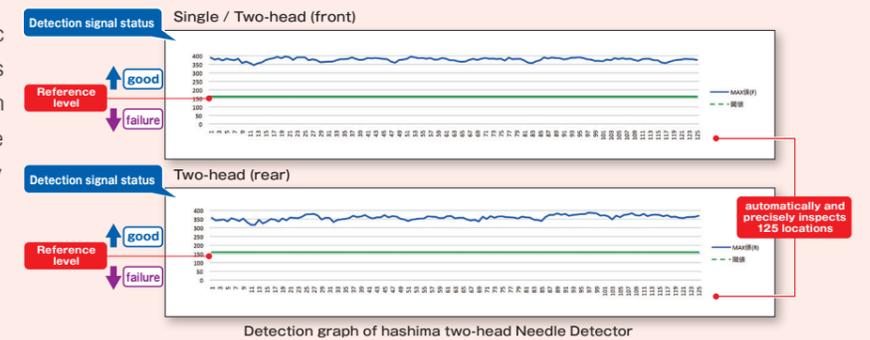
Reference Video

## Hashima Detailed Inspection Device HN-C1

Light Weight Compact

01

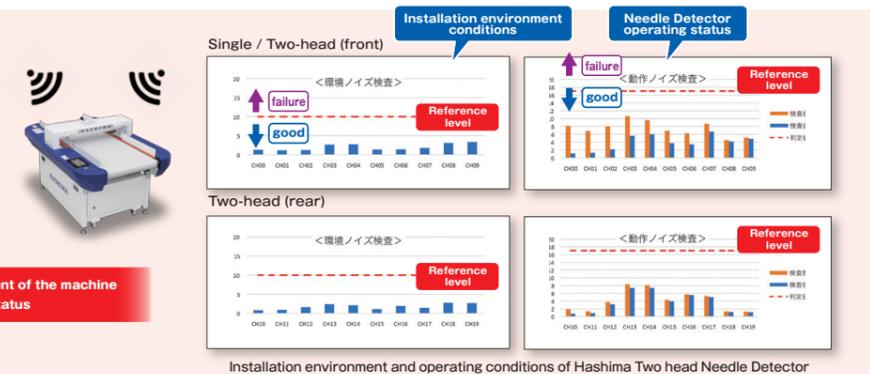
A newly developed automatic inspection device performs automatic precision inspection of 125 locations within the detection area. Display graphical indication.



Advantages  
-Automatic inspection  
-Graphing inspection results

02

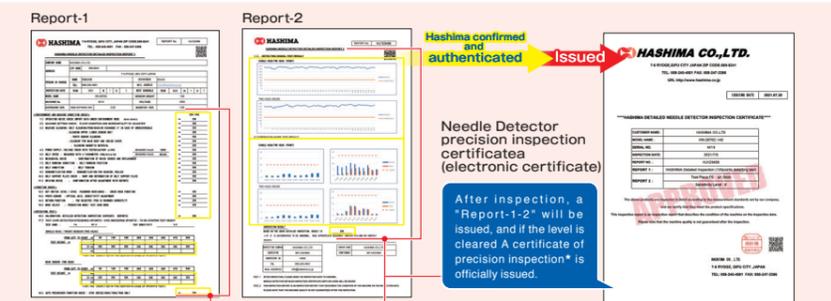
The installation environment and operating status inspections that are important for the needle detector are displayed graphically.



Advantages  
-Checking the installation environment of the machine  
-Check Needle Detector operating status

03

It is an electronic data set that includes a certificate and a report.



Advantages  
-Approval based on reports and inspection results  
-Issue Electric Certificate

04

Save the original on the Hashima server and check the inspection report anytime, anywhere.



Advantages  
-The QR code can be written on the certificate.  
-Reliable service that allows you to easily check test results