

**HASHIMA®**

# **NEEDLE DETECTOR**

NEEDLE DETECTOR GENERAL CATALOG



From the library of: Superior Sewing Machine & Supply LLC



**HASHIMACOLTD**



## CONVEYOR TYPE NEEDLE DETECTOR

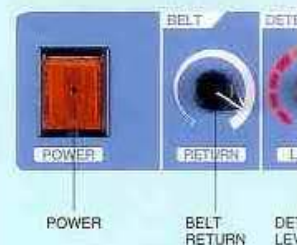
# HN-650C / HN-660C / HN-750G



HN-650C

**MAXIMUM  
SENSITIVITY  
φ0.8mm**

■ Control panel



HN-660C

### FEATURES

#### ●Improvement of detecting precision

Detecting precision is increased by adopting new developed detecting sensor

φ0.8 mm steel is detected by detecting height 100mm type.

φ1.0 mm steel is detected by detecting height 140mm type.

φ1.2 mm steel is detected by detecting height 180mm type.

As in the past, the maximum detecting height was 100mm for detecting φ1.0mm. But new model HN-650C/660C realized detecting height 140mm.

#### ●Improvement of performance for an outside noise

New detecting sensor unit has also good noise performance. When new type is compared with previous type, 30% reduced influence by an outside noise.

#### ●Stability of detecting sensitivity

We improved to uniform detecting sensitivity and 30% increased stability of detecting sensitivity.

#### ●New sensitivity level monitor

A level monitor adopts new design and is more easy to check the sensitivity level. Detecting position lamp is divided to 10 pieces that shows foreign object exactly.

#### ●30% up

New design detecting sensor has also good noise performance that is increased about 30% than previous model.

#### ●140mm height

The maximum detecting height of previous model was 100mm only to detect φ1.0mm. But the detecting height of new model HN-650C/660C is 40% up. 140mm height is available.

#### ●Return device

This machine has return device that the products return to a operator after making alarm when the machine detects foreign object in a products.

#### ●Belt speed 40m/min(50/60Hz)

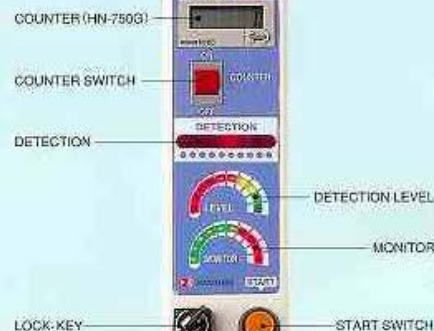
This belt speed that connect to detecting ability is no.1 on this class.

#### ●Counter/Product guider

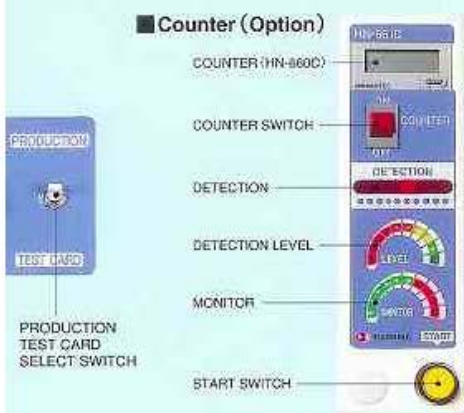
HN-660C and HN-750G is equipped with counter and products guider as standard.

#### ●Protection cover for control panel can avoid to change sensitivity level and select switch for PRODUCTION and TEST CARD unconsciously(HN-750G)

#### ●Safety look-key switch is equipped on the operation panel(HN-750G)







## SPECIFICATIONS

Model	HN-650C	HN-660C	HN-750G
action method	Magnetic induction		
action ability	φ0.8mm steel to small scissors		
setting adjustment	Step-less		
action width	600mm		
action height	100mm (Standard type)		
alarm method	Buzzer, Lamp		
Belt speed	(appr.) 40m/min		
power supply	Single phase		
rated output	(appr.) 140W		
Dimension	1,650 (L) × 1,050 (W) × 920 (H) mm		
Weight	(appr.) 250kg		
product guider	—	—	Standard
Counter	—	—	Standard

in)

use UNTI METAL ITEM for garment accessory.

specification is under standard test condition. The sensitivity depends on the  
ing condition. Before detecting operation, please refer "For correct operation" and  
n the machine movement with test card certainly. (To be tested with specified  
at 6 points. (In case of HN-650C/660C, the test should be done at 40mm height  
left surface.)

refer instruction manual about detail information.

confirmed the needle detector movement (position indicator lamp, stop and reverse  
veyor belt and detecting monitor lamp), please start operation.

have no responsibility that needle chip, iron chip, etc. come out after detecting under  
standard condition.

## OPTION AT FACTORY

action height	Detection Sensitivity	Remark
100mm	φ0.8mm steel to small scissors	Standard type
140mm	φ1.0mm steel to small scissors	Option at factory
180mm	φ1.2mm steel to small scissors	Option at factory

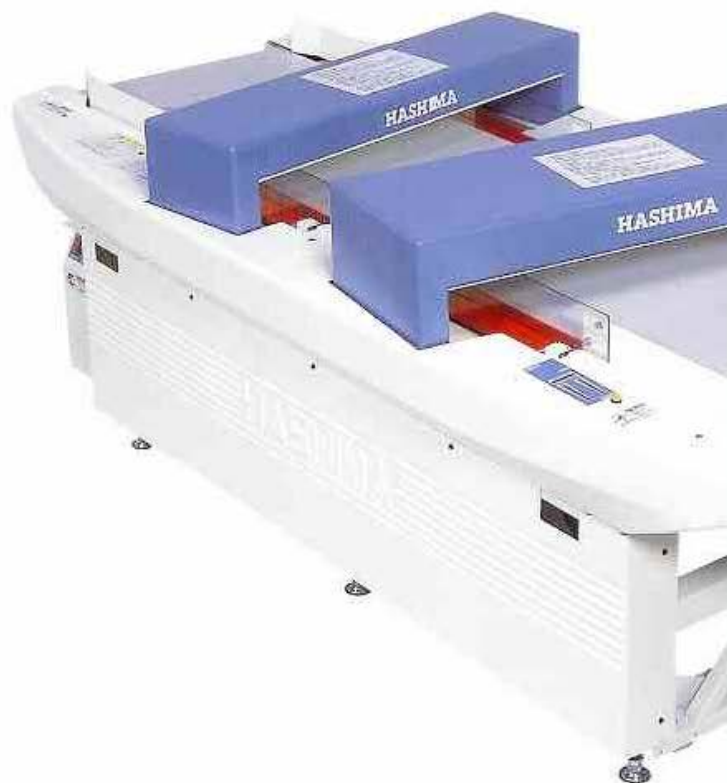
acting ability is conditioned by environment and using.



HN-750G

CONVEYOR TYPE

# TWO HEAD CONVEYOR TYPE NEED HN-2650C



## FEATURES

### Two head sensor

The two sensor head are set at different angle to minimize a detection difference made by direction of broken.

### Improvement of detecting precision

φ 0.8 mm steel is detected by detecting height 100mm type.

φ 1.0 mm steel is detected by detecting height 140mm type.

φ 1.2 mm steel is detected by detecting height 180mm type.

Detecting precision is increased by adopting new developed detecting sensor.

### Improvement of performance for an outside noise

New detecting sensor unit has also good noise performance. When new type is compared with previous type, 30% reduced influence by an outside noise.

### Belt speed 40m/min(50/60Hz)

This belt speed that connect to detecting ability is no.1 on this class.

### Stability of detecting sensitivity

We improved to uniform detecting sensitivity and 30% increased stability of detecting sensitivity.

### New sensitivity level monitor

A level monitor adopts new design and is more easy to check the sensitivity level. Detecting position lamp is divided to 10 pieces that shows foreign object exactly.

### Return device

This machine has return device that the products return to a operator after making alarm automatically when the machine detects foreign object in a products.



# E DETECTOR



**MAXIMUM SENSITIVITY**  
 $\phi 0.8 \text{ mm}$

## SPECIFICATIONS

Model	HN-2650C
Detection method	Magnetic induction
Detection ability	$\phi 0.8 \text{ mm}$ steel to small scissors
Detecting adjustment	Step-less
Detection width	600mm
Detection height	100mm
Alarm method	Buzzer, Lamp
Belt speed	(appr.) 40m./min
Power supply	Single phase
Rated output	140W
Dimension	2450 (L) X 1080 (W) X 930 (H) mm
Weight	(appr.) 460kg

Caution)  
 Please use UNTI METAL ITEM for garment accessory.  
 \*The specification is under standard test condition.  
 The sensitivity depends on the working condition.  
 \*Before detecting operation, please refer "For correct operation" and confirm the machine movement with test card certainly. (To be tested with specified height at 8 points. (In case of HN-2650C, the test should be done at 40mm height (front side) and 50mm height (rear side) from belt surface.)  
 Please refer instruction manual about detail information.  
 After confirmed the needle detector movement (position indication lamp, stop and reverse of conveyor belt and detecting monitor lamp), please start operation.  
 \*We have no responsibility that needle chip, iron chip,

# HANDY TYPE NEEDLE DETECTOR

## HN-30



**MAXIMUM SENSITIVITY**  
 $\phi 0.8 \text{ mm}$

## FEATURES

- $\phi 0.8 \text{ mm}$  steel is detected  
 This new handy type needle detector can detect  $\phi 0.8 \text{ mm}$  steel at 5mm height from detecting unit surface.
- Battery save function  
 Under stand by, Battery mode is changed to save mode automatically and save battery consumption. When take it in hand, the machine starts automatically. New designed detecting circuit is low electric consumption.
- Light weight  
 The weight is only 190g that is more light 10% than previous model. New designed body help you to grip for long time without fatigue.
- Large size LED lamp  
 It is easy to check the detecting result by adapting large size LED lamp.

## SPECIFICATIONS

Model	HN-30
Detecting Method	Magnetic induction
Detecting ability	Hi : $\phi 0.8 \text{ mm}$ steel at 5mm height from detecting surface. Low : $\phi 1.0 \text{ mm}$ steel at 5mm height from detecting surface.
Detecting adjustment	2 step
Detecting area	25mm (W) x 50mm (D)
Alarm method	Buzzer, LED lamp
Power supply	1.5V dry cell battery X2 (AAA)
Dimension	58 (W) X 195 (L) X 50 (H) mm
Weight	212g

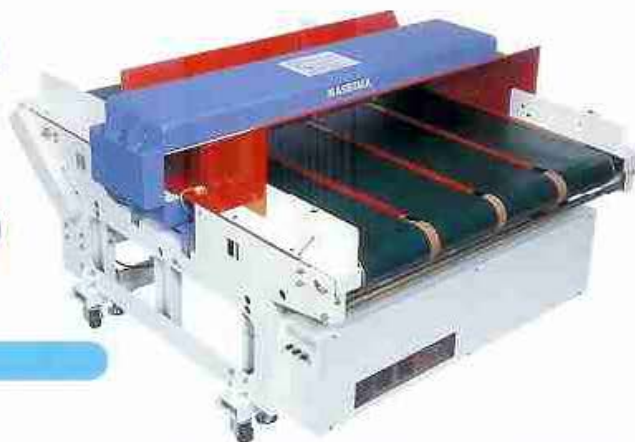
Caution)  
 Please use UNTI METAL ITEM for garment accessory.  
 \*The specification is under standard test condition. The sensitivity depends on the working condition.  
 \*We have no responsibility that needle chip, iron chip,



# CONVEYOR TYPE NEEDLE DETECTOR

## HN-1350C

MAXIMUM  
SENSITIVITY  
φ1.2mm



### FEATURES

- **Adoption of new developed detecting sensor**  
φ1.2mm steel is detected by detecting height 130mm type.  
This needle detector has detecting width 1300mm and suitable for large size products like futon, bed spreader, Etc.
- **Improvement of performance for an outside noise**  
New detecting sensor unit has also good noise performance. When new type is compared with previous type, 30% reduced influence by an outside noise.
- **Belt speed 30m/min(50/60Hz)**  
This belt speed that connect to detecting ability is no.1 on this class.
- **Return device**  
This machine has return device that the products return to a operator after making alarm when the machine detects foreign object in a products.

#### Caution)

Please use UNTI METAL ITEM for garment accessory.

\*The specification is under standard test condition. The sensitivity depends on the working condition.

\*We have no responsibility that needle chip, iron chip, etc. come out after detecting under non-standard condition.

### SPECIFICATIONS

Model	HN-1350C
Detection method	Magnetic induction
Detection ability	φ1.2mm steel to scissors
Detecting adjustment	Step-less
Detecting width	1300mm
Detecting height	130mm
Alarm method	Buzzer, Lamp
Belt speed	(appr.) 30m/min
Power supply	Single phase
Dimension	1865 (D) × 1760 (W) × 1080 (H) mm
Weight	(appr.) 400kg
Product guider	Standard

# TABLE TOP NEEDLE DETECTOR

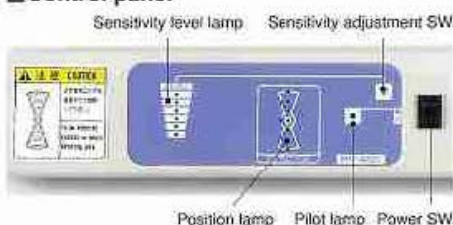
## HN-450



### FEATURES

- As indicator on control panel is indicating the position of broken needles, it is easy to find broken needles.
- As detecting adjustment can be changed by 6 steps, it is easy to adjust in accordance with the sizes and kinds of accessories.

#### Control panel



### ATTENTION

Table top needle detector is designed to detect magnetic metal objects in ladies, children's and men's clothes.

### OPTION

#### Table for HN-450

This table can build in HN-450. The surface of table and needle detector is same height by this table. This is helpful for detecting works.

Size: 1200 (L) × 900 (W) mm (without stand)

### SPECIFICATIONS

Model	HN-450
Detection method	Magnetic induction
Detection sensitivity	MAX 110mm height by steel needle (φ0.6X133)
Detection adjustment	6step
Alarm method	Buzzer
Detection width	80mmX450mm
Power source	Single phase
Rated output	(appr.) 25W
Dimension	400 (L) × 680 (W) × 70 (H) mm
Weight	(appr.) 11kg

#### Caution)

Please use UNTI METAL ITEM for garment accessory.

\*The specification is under standard test condition. The sensitivity depends on the working condition.

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# HANGER TYPE NEEDLE DETECTOR

## HN-5000

MAXIMUM  
SENSITIVITY  
 $\phi 1.0\text{mm}$



### FEATURES

#### ● Speedy and smooth needle detecting

This machine can detect products 4800pcs /day. (8hours/day)

It is possible to detect the products with hanger at 6sec/pc

#### ● Improvement of detecting precision

$\phi 1.0\text{mm}$  steel is detected by detecting width 120mm

Detecting precision is improved by adopting new developed

detecting sensor. Detecting length is 130cm. So long size products( suit, coat, pants, etc.) can be detected.

#### ● Improvement of performance for an outside noise

New detecting sensor unit has also good noise performance. When new type is compared with previous type, 30% reduced influence by an outside noise.

#### ● New sensitivity level monitor

A level monitor adopts new design and is more easy to check the sensitivity level. Detecting position lamp is divided to 20 pieces so that it is also possible to shows foreign object exactly. detecting position exactly.

#### ● Auto assortment

This needle detector can assort goods products or not automatically on the processing bringing-----set out-----detecting-----as-sorting. The operator can do needle detecting efficiently without stop the system.

### SPECIFICATIONS

Model	HN-5000
Detection sensitivity	$\phi 1.0\text{mm}$ steel to small scissors
Detection width	Height 1,300mm Width 120mm
Detection speed	600pcs/h
Power source	50/60Hz 1 phase 220V-240V
Rated output	200W
Air pressure	5kg/cm <sup>2</sup>
Dimension	2,760 (L) X 630 (W) X 2,084 (H) mm
Weight	(appr.) 600kg

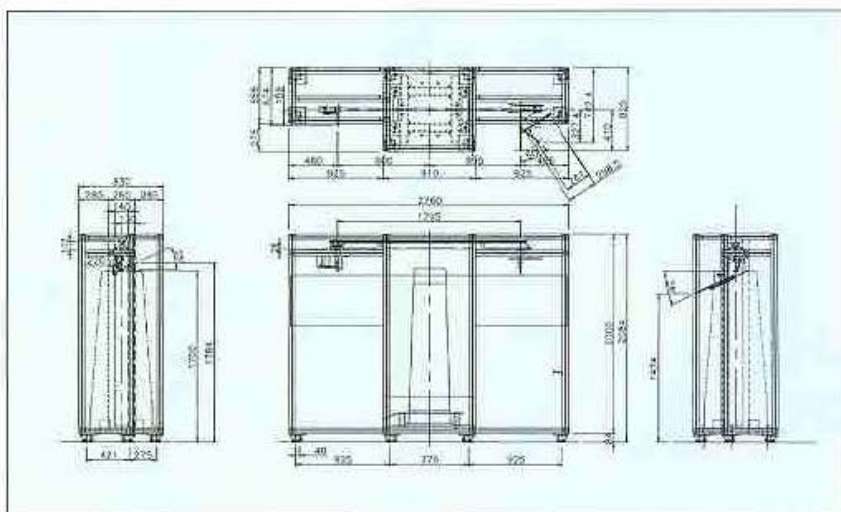
#### Caution)

Please use UNTI METAL ITEM for garment accessory.

\*The specification is under standard test condition. The sensitivity depends on the working condition.

\*We have no responsibility that needle chip, iron chip, etc. come out after detecting under non-standard condition.

### DIMENSIONS



We recommend to check the products twice by a needle detector to detect broken needle more exactly.

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From the library of: Superior Sewing Machine & Supply LLC

Design and Production of Needle Detector  
HN-5000-5000/7500/10000