

HASHIMA

INSPECTION MACHINE SERIES

GENERAL CATALOG



C O N V E Y O R T Y P E

Conveyor type
needle detector
(single head)

HN-880C
HN-790G

■ 7 inch color LCD



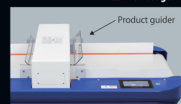
Conveyor type
needle detector
(two head)

HN-2880C
HN-2790G

■ 7 inch color LCD



■ Product guide



Full model change of hardware and software !
The 7th generation debut !

■ FEATURES

- The fastest in the industry. Conveyor speed 40m/min
- Equipped with SUPER FINE MODE. (Patented)
- The conveyor speed is adjustable for various accessories. This belt speed adjustment will increase passability of various accessories.
- Equipped with Auto Pre Checker (Patent pending)
- Reduction of the machine pre checking time. It will be completed at short time exactly by easy operation.
- Equipped with Environment checking Mode.(Patent pending)
- This mode can check the surrounding environment of the machine easily.
- Scalability to peripheral device
- It is possible to connect with automatic sorter, RFID reader, Bar code reader and so on.
- An operator can select 10 stages (100step) sizing method (6steps) as sensitivity setting
- Equipped with a production guider.
- It is possible to download
- Equipped with full Color LCD panel

■ SPECIFICATIONS

MODEL	HN-880C	HN-790G	HN-2880C	HN-2790G
DETECTION METHOD	MAGNET INDUCTION			
DETECTION RAIL	Fe0.8φ sphere or above			
SENSITIVITY ADJUSTMENT	DECIMAL(100step) or SIZING (6step)			
DETECTION WIDTH	600mm			
DETECTION HEIGHT	120mm(standard)			
ALARM METHOD	BUZZER POSITION LUMP			
BELT SPEED	40~15m/min			
POWER SUPPLY	single phase			
RATED OUTPUT	150W			
DIMENSIONS	1598(L)×950(W)×903(H)		2423(L)×1040(W)×903(H)	
NET WEIGHT	230kg		374kg	
PRODUCT GUIDER	Standard		Standard	

■ FACTORY OPTION

MODEL	SENSOR HEIGHT	MAX. SENSITIVITY
HN-880C	120mm	Fe 0.8φ
	140mm	Fe 1.0φ
	160mm	Fe 1.2φ
HN-790G	180mm	Fe 1.5φ
	120mm	Fe 0.8φ
	120mm	Fe 0.8φ
HN-2880C	140mm	Fe 1.0φ
	160mm	Fe 1.2φ
	180mm	Fe 1.5φ
HN-2790G	120mm	Fe 0.8φ

- ※ Use non ferrous metal accessories for garments.
- ※ Read instruction manual & test machine sensitivity before using.
- ※ The specification is under standard test condition.
- ※ We have no responsibility that needle chip, iron chip etc. come out after detecting under non-standard condition.

Auto PreChecker™

Innovative sensor checking system by for saving your time!

● Auto PreChecker™※

Auto PreChecker makes sensor checking more accurate and quicker. By using PreCheck Bar (Specialized test block) & system, you do not need to check each coil one by one, the system checks sensors automatically.

Also you can keep the PreCheck result if you prepare the optional printer. (※PATENT PENDING, TRADEMARK REGISTRATION PENDING.)

OPTIONAL THERMAL PRINTER



New generation needle detector with scalability for line system!

7 inch color LCD

Standard function

- Detecting position lamp
- Products counter
- History indication
- Japanese, English, Chinese language
- Auto pre-checker
- pass word configuration (for supervisor, operator)
- super fine mode(40~15m/min.)
- USB port equipped
- Safety design cover

Option

- Printer
(it can print inspection record and counter result)
- Auto sorting device HS-601

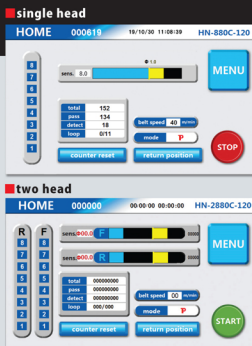
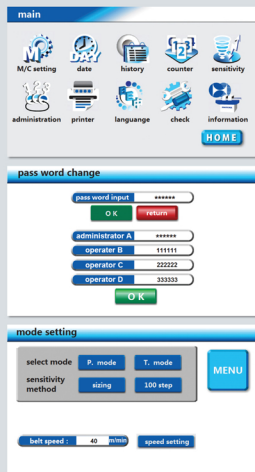


TABLE TOP TYPE NEEDLE DETECTOR HN-450N

Control panel



FEATURES

- As indicator on control panel indicates 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.

ATTENTION

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

OPTION

Table for HN-450N

HN-450N can be built in the optional table. The surface of the table and the needle detector are same height using this table. This table is helpful for detecting work.



SPECIFICATIONS

Model	HN-450N
Detection Method	Magnetic induction
Detection Sensitivity	MAX 110mm height by steel needle (φ0.6xL33)
Detection Levels	6 Levels
Alarm Method	Buzzer
Detection Width	80mm×450mm
Power Source	Single phase
Rated Output	max 3.10W
Dimension	590(L)×420(W)×82(H)mm
Weight	approx 3.9kg

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HANDY TYPE NEEDLE DETECTOR HN-30

LIGHT & EASY OPERATION

FEATURES

- φ0.8 mm steel is detected
- This new handy type needle detector can detect φ0.8 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. Newly designed detecting circuit is low electric consumption.
- Light weight
- The weight is only 190g that is 10% lighter than previous model.
- Large size LED lamp
- Newly designed body help you to grip for long time without fatigue.
- It is easy to check the detecting result by adapting large size LED lamp.
- Sensitivity select switch
- The new handy type needle detector adopts H/low sensitivity select switch.



SPECIFICATIONS

Model	HN-30
Detection Method	Magnetic induction
Detection Ability	※ For φ0.8mm (square or above) at 5mm height from detecting surface. ※ Low for φ1.0mm (square or above) at 5mm height from detecting surface.
Detection Levels	2 Levels
Detecting Area	25mm(W) × 50mm(D)
Alarm Method	Buzzer, LED lamp
Power Supply	1.5V dry cell battery(2(AAA))
Dimension	58(W)×195(L)×50(H)mm
Weight	212g

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LARGE SIZE CONVEYOR TYPE NEEDLE DETECTOR HN-1370C/HN-1570C

■ 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 reduction 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.

■ SPECIFICATIONS

Model	HN-1370C/HN-1570C
Detection Method	Magnetic induction
Detection Ability	Fe φ1.2mm Sphere or above
Detection Levels	Step-less
Detection Width	1,300mm / 1,500mm
Detection Height	130mm
Alarm Method	Buzzer, lamp
Belt Speed	(approx) 30m / min
Power Supply	Single phase
Dimension	1,850(D)×1,760(W)×1,080(H)mm(1370C)
Weight	(approx) 400kg
Product Guide	Standard

① Use non ferrous metal accessories for garments.
② Read instruction manual & test machine sensitivity before using.
③ The specification is under standard test condition.
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HANGER TYPE NEEDLE DETECTOR HN-1300H

■ FEATURES

- **Speedy and smooth needle detecting**
It is possible to detect the products with hanger at 6sec/pc

- **Improvement of detecting precision**
φ1.0mm steel is detected by detecting width 130mm. Detecting precision is improved by adopting newly developed detecting sensor. detecting length is 130mm, 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 easier to check the sensitivity level, detecting position lamp is divided to 20 pieces so that it is also possible to show 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—assorting, the operator can do needle detecting efficiently without stop the system.

- **Data collection**
The detecting result is able to be collected to your computer (requires XP) by optional software from the needle detector. the collected data can be used for each purpose.

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■ SPECIFICATIONS

Model	HN-1300H
Detection Ability	Fe φ1.0mm Sphere or above
Detection Width	Height 1,300mm Width 130mm
Detection Speed	600pcs/h
Power Source	1P 220V
Rated Output	100W
Air Pressure	0.5kg/cm ²
Dimension	2,300(L)×900(W)×2,350(H)mm
Weight	800kg

① Use non ferrous metal accessories for garments.
② Read instruction manual & test machine sensitivity before using.
③ The specification is under standard test condition.
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CONVEYOR TYPE METAL DETECTOR HM-6000/HM-8000

HIGH PERFORMANCE &
DETECTION FOR
ALL METAL.

■ FEATURES

- **Detection for all metal**
Any metallic foreign object can be detected regardless of kinds of metal.

- **Precise detection by original designed sensor**
Achieved precise & accurate detection by original designed sensor.

- **Precise sensitivity adjustment**
There are 100 steps sensitivity adjustment, and the best sensitivity can be set for the respective items.

- **Peak hold function**
Detecting level will be held at peak. It can be used for detailed investigation more easily.

HM-6000

■ SPECIFICATIONS

Model	HM-6000	HM-8000
Detection Method	Electric Induction System	
Detection Levels	100 Levels	
Detection Width	600mm	800mm
Detection Height	100mm (Standard)	
Alarm Method	Alarm, Lamp & Conveyor Reverse function	
Belt Speed	20m/min	
Power Supply	Single phase	
Rated Output	140W	
Machine Dimension	1,800(L)×1,250(W)×850(H)mm	1,800(L)×1,250(W)×850(H)mm
Machine Weight	250kg	300kg

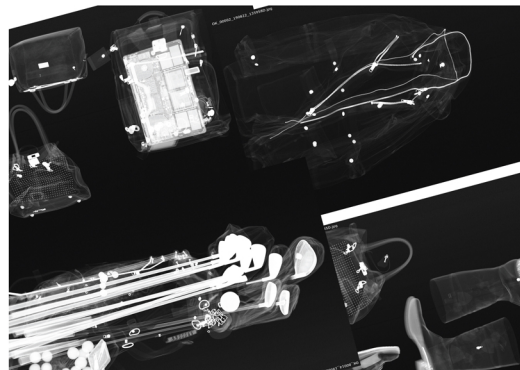
■ FACTORY OPTION

Detection height	Sensitivity	Remarks
100mm	Fe φ1.0mm sphere, 0.0100 φ1.2mm sphere or above	Standard
150mm	Fe φ1.2mm sphere, 0.0150 φ1.6mm sphere or above	Option
200mm	Fe φ1.6mm sphere, 0.0200 φ2.0mm sphere or above	Option
250mm	Fe φ2.0mm sphere, 0.0250 φ2.5mm sphere or above	Option

① Read instruction manual & test machine sensitivity before using.
② The specification is under standard test condition.
③ We have no responsibility that needle chip, iron chip etc. come out after detecting under non-standard condition.



Respond to every demand of diversifying X Ray inspection
Dual X-Ray Inspection Machine.



X-Ray

INSPECTION MACHINE

Feature

Double Direction Shooting (Dual Sensor)

Double Direction shooting (0 degree and 25 degree) can provide 2 different angle image data by one operation. It is quite useful to detect foreign object.

Traceability

All scan image data can be saved and can print out the scan image dates No. and also can print out the scan image date itself and transfer it at a distance through internet.

Multi-Language Support

We suppose that the machine will be operated overseas, so that it supports Japanese, English and Chinese.

Full Automatic Operation

X ray irradiating, Conveyor Start, Image capture and saving are controlled by one operation automatically.

Variety of Monitor setting

It is possible to select variety of setting (one image with one direction, one image with 2 direction) for detecting object.

High Precision Sensor

Maximum Sensitivity in the industry by new line sensor. This mode is equipped with high precision X ray line sensor and realizes low noise and speed up.

Energy Saving

This model checks the operation condition and controls the power consumption automatically.

Label Printer

It is useful for Traceability.

Rear Conveyor

Length: 1m

Monitor Arm

The monitor position changing is possible.

Control Panel



Remote Control Switch

Easy operation by dedicated remote controller

Automatic Loading Conveyor

Length: 21m.
Height: 850mm.



HNX-S665NDS

HNX-S410NDS

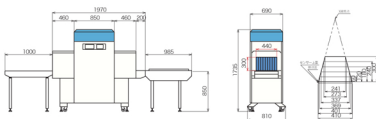
SMALL
SIZE

For small object to shoes (knee-high boots) and process inspection



HNX-410NDS/HNX-S410NDS

Installation dimension



HNX-S665NDS

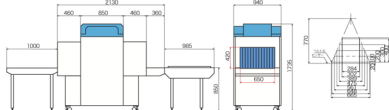
MEDIUM
SIZE

For small object to garments



HNX-665NDS/HNX-S665NDS

Installation dimension



HNX-S800NDS

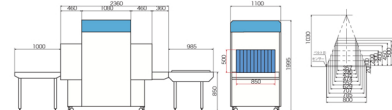
LARGE
SIZE

The sensor size is 819mm width. For large size garment.



HNX-800NDS/HNX-S800NDS

Installation dimension



FUNCTION

■ Main Screen

Renewal of Software

Iconizing required functions to mark them intuitive.

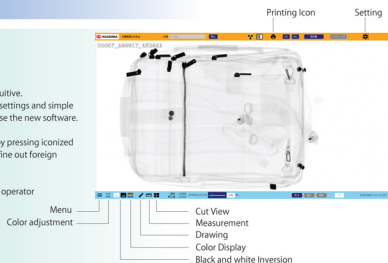
The new software copies with both advanced settings and simple operations so that old version user also can use the new software.

Image adjustment

An operator can call a number of conditions by pressing iconizing adjustment button. This function will help to fine out foreign object that difficult to find out.

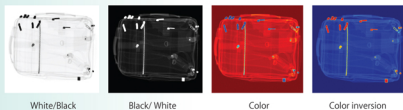
Counter

Since each scan date has running No. and the operator can check the before and after scan data easily by this counter function.



■ Full color Display

It is helpful to find out the foreign object by full color display



■ Drawing Function

An operator can put comment to the scan data directly.



Drawing Tool

■ NG comment Function

If judged as NG, the registered comment will be indicated and relevant comment can be selected.



■ Report Creation Function

It is easy to create each report based on Customer name, Lot No., Size, Color.



■ Equipped with Training Mode

An operator can practice the of pass/fail judgment by this training mode



Training Result Screen

■ SPECIFICATIONS

Model	HNX-410NDS	HNX-5410NDS	HNX-665NDS	HNX-5665NDS	HNX-800NDS	HNS-5800NDS
X-ray Angle	0° 25° (Dual Direction)					
Tunnel Size	400 (W) × 300 (H) mm		690 (W) × 420 (H) mm		850 (W) × 500 (H) mm	
Belt Width	460mm		648mm		785mm	
Belt Speed	Adjustable Belt Speed 15~25m/min					
Conveyor Sty	Double Conveyor	Single Conveyor	Double Conveyor	Single Conveyor	Double Conveyor	Single Conveyor
Object Weight	Max 5kg					
X-ray Sensor	Straight Type Line Sensor					
Sensor Length	409.6mm		665.6mm		819.2mm	
Sensor Pixel Size			0.4mm			
Sensor Pixel Number	1,024pixels		1,664pixels		2,048pixels	
X-ray Tube Voltage	30~75kV					
X-ray Tube Current	0~3mA					
Operating System	Windows10 (64bit)					
Memory	8GB					
Hard Disk	2TB					
Image Processing	Brightness, Contrast, Sharpness, Zoom					
Data Saving	Automatic or Manual Saving					
Data Format	TIFF/BMP/JPEG (Plurally Selectable)					
Display	23.8inch Full Definitions × 2 (Standard)					
Image Data Print	Automatic or Manual Printing					
Safety Sensor	Hand Insertion Sensor					
Dimensions	1970 (W) × 810 (D) × 1735 (H) mm		2130 (W) × 940 (D) × 1735 (H) mm		2360 (W) × 1100 (D) × 1995 (H) mm	
Weight	700kg		800kg		900kg	
Power Supply	AC90~120V 50/60Hz					
Power Consumption	0.8KVA					
X-ray Leakage	1 μSv/h@1F					
Operating Temperature	5~35℃					
Operating Humidity	20~80%RH (With Non Condensation)					
Standard Accessories	Instruction Manual, Test Piece					
Optional Accessories	Touch Panel, PC Printer (Selectable) Label Printer, Roller Conveyor, Electric Conveyor (Put/Carry Out), Monitor Stand, Putting Guide, UPS					

OPTION



■ Auto Conveyor
Any size ones are available



■ Color printer
(RICOHSG2200)
Print out the image scan data
Support Windows 64 bit



■ UPS
Uninterruptible
Power Source (UPS)
In case of electrical outage,
protecting the machine



■ Roller Conveyor
Any size ones are available



■ Label Printer
Print label to trace the products
(Recommend the above model)



■ Remote Control Switch
Frequent operation is controlled by
the button without using the mouse
and the touch panel.