

# *detectMASTER II*™

**INTRODUCTION**

The minute pieces of broken needles in the baby garment can be dangerous to the health as the babies cannot tell if they are hurt with broken particle. So in order to avoid any mishappening, certain countries (for e.g. Sweden, Japan etc.) have made it mandatory that whatever any under garment or baby garments enters their country, needs to be passed through the needle detector machines. It is with due consideration to this requirement and our moral responsibility towards the human race that we, at PARAMOUNT, have introduced *detectMASTER I*™ for the Garment Industry.

**EQUIPMENT**

Paramount's *detectMASTER II*™ is a double Channel equipment, which eliminates all chances of the passage of the minutest broken needle particle (as small as 0.8 mm broken needle particle) through it. The placement of the Two Channels are at 10 degrees angle location to ensure that no broken needle particle can escape whatever may be the position of its placement / Position in the garment. The equipment works on the magnetic induction principal. The Equipment has a detecting width of 600 mm with an effective detecting height of 100 mm. *detectMASTER II*™ uses two Detecting Channels having 8 sensors each. It can conveniently detect any broken needle particle up to 0.8 mm size.

**SALIENT FEATURES**

- Specially designed machine to detect broken needle or any ferrous particle in garments.
- Latest model with double sensor channel.
- *detectMASTER II*™ works on the magnetic induction principal.
- Smallest ferrous particle it can detect is 0.8 mm.
- Product width up to 600mm can be easily checked in this machine.
- Garments up to 80mm thickness can be easily checked.
- Caster wheels at base for easy movement of the machine.
- An alarm sounds at the detection of any broken needle & the belt stops and comes back to its original position.
- Complete with all accessories along with Φ 0.8mm card to check calibration.
- Supplied with inspection & conformance certificates.

**detectMASTER II™ is supplied complete with below accessories.**

Main unit	: 01 No.
Ferrous Ball (φ 0.8 mm) To check the sensitivity of the Equipment	: 01 No.
Ferrous Ball (φ 1 mm) To check the sensitivity of the Equipment	: 01 No.
Dust cover	: 01 No.
This User's Manual	: 01 No.
Calibration Certificates (Traceable to NPL)	: 01 No.
Inspection & Conformance Certificates	: 01 No.



**TECHNICAL DETAILS**

<b>MODEL</b>	: <i>detectMASTER II</i> ™
Purpose	: To detect broken needle (Fe) parts.
Channel / Probe Type	: Double Sensor / Channel Type
Needle Detecting Capability (Fe)	: 0.8 mm
Detecting Width Height	: 100 mm (With protection cover 80 mm)
Detecting Width (Conveyor Belt)	: 600 mm
Conveyor Belt (Length)	: 2200 mm
No. of Detecting Sensor at top	: 8 Nos.
No. of Detecting Sensor at Bottom	: 8 Nos.
Control of Sensitivity	: 10 Step Control
Conveyor Belt Speed	: 30 meters / Per minute
After Detection	: The conveyor belt stop automatically and come back to its original position.
Alarm Sound	: An alarm sounds at detection of any broken needle Particle or Iron (Fe) Piece
Power Consumption	: 60 Watts / Per Hour
Power Supply	: 220V, Single Phase 50 Hz. (Also available 110V, Single Phase 60 Hs.)
Space Required.	: Minimum 4 feet. around machine free from vibrations as the machine is highly sensitive to surrounding vibration.
<b>Dimension (Net)</b>	: <b>2300 mm (L) x 1120 mm (W) x 900 mm (H)</b> <b>90.5inch      44inch      35.5inch</b>
<b>Weight</b>	: <b>250 Kg. (440 lbs).</b>



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