METAL DETECTOR AOLITE RANGE WITH APPLICATION & TECHNICAL DETAILS

ZYZ-600 C3
ZYZ-600 D

CUSTOMER REFERENCE :

1)	Al-Karam Textile, KHR	– ZYZ-600 D / **13** units
2)	Younas Textile, Landi-KHR	– ZYZ-600 D / **08** units
3)	Lintaz Industries, KHR	– ZYZ-600 D / 01 unit
4)	Gul Ahmed Textile, KHR	– ZYZ-600C3 / **18** units
5)	Ideal International, KHR	– ZYZ-600C3 / 02 units
6)	Hay Textile, KHR	– ZYZ-600C3 / 01 unit
7)	Amsons Textile, KHR	– ZYZ-600C3 / 01 unit
8)	Mount Fuji Textile, SITE-KHR	– ZYZ-600C3 / 01 unit
9)	New Pack Ind.[paper], KHR	– ZYZ-600C3 / 01 unit
10)	Asacotex Textile, KIA-KHR	– ZYZ-600C3 / 01 unit
11)	Pearl Fabric, KIA-KHR	– ZYZ-600C3 / 01 unit
12)	Al-Rahim Textile Mill, KHR	– ZYZ-600C3 / 01 unit
13)	Ashabi Textile Mill, KHR	– ZYZ-600C3 / 01 unit
14)	Al-Hamd Textile Connection	– ZYZ-600C3 / 01 unit
15)	Crown Textile Mill, KHR	– ZYZ-600C3 / 03 unit
16)	Knitwear Enterprices, KHR	– ZYZ-600C3 / 01 unit
17)	Al-Rahim Textile Mills, KHR	– ZYZ-600C3 / 01 unit
18)	Chenab Fabrics, FSD	– ZYZ-600C3 / 01 unit

MODEL: **ZYZ-600 C3**

Detect sensitivity Fe^{+2}(mm): **0.5 – 1.3 or 2.5 – 3.0**
Detection heights (mm): 100 – 250 / as desired
Detection widths (mm): 600 / as desired
Adjustment of sensitivity: 0-12
Motor Power & Wt: 60 W & 150 Kg
LxWxH (mm): **1740 x 1050 x 900**

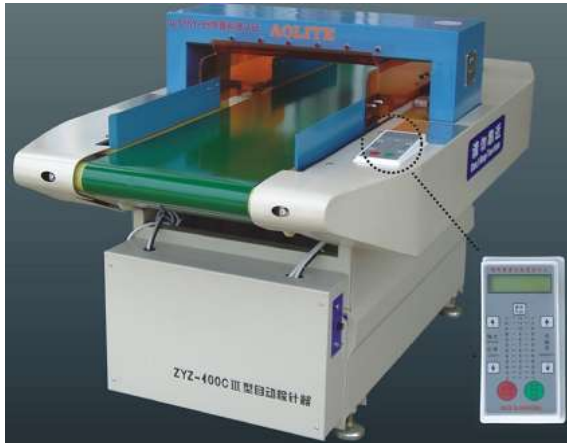| Model	Detecting width(mm)	Detecting height(mm)	Sensitivity (ferrous ¢ in mm)	Remarks
ZYZ-600C III (Regular Model)	600	100	Φ0.8	*Economical model*
		150	Φ1.0	
		200	Φ1.2	
		250	Φ1.5	
		300	Φ2.0	
		350	Φ2.5	
ZYZ-600C III (Improved Model)	600	100	Φ0.5	*Improved detecting performance*
		150	Φ0.8	
		200	Φ1.0	
		250	Φ1.3	
		300	φ1.6	
		350	Φ2.0	

Comparison of parts used between Aolite and other suppliers

By: Shanghai Aolite Electron Co., Ltd.

Example Model	Component Name	Aolite uses	Features	Parts other low-cost suppliers may use	Possible detects
ZYZ-600CIII	Driving motor	Panasonic brand	Durable, low noise	Motors made in Zhejiang or Jiangsu provinces	High noise, less durable and gears easy to wear
	Main control board	Main board (red)	High sensitivity, stable, with imported integrated chips	Low-grade boards	Less sensitivity, easy to cause false alarms
	Detecting head	Magnetic steel made in Shanghai	High performance, no magnetic decrease	Magnetic steel made in Zhejiang province	Low performance, easy to degrade
	Conveyor belt	Thick belt, green or white	Quality material, hard to wear and less false alarms	Thin belt	Easy to wear and cause false alarms
	Under-belt board	Epoxy resin	Resistant to static electricity, smooth surface, little wearing or deformation	Fiber board or floor board	Poor appearance, easy to deform and wear, not suitable for machines
	Converying roller	*Reinforced epoxy resin	Durable, little wearing or deformation	Stainless steel or alumunium alloy pipe for interior decoration	Thin pipe thickness, easy to deform and stick iron fragments over use
	Fastener	Stainless screws	Stainless, good appearnce	Iron screws	Easy to rust, poor appearance and hard to take off
	Anti-viberation	Anti-viberation pads	High machine stability and sensitivity	No pads used	Low machine stability

Application Performance: ZYZ-600 C3 / ZYZ-400 C3

1) Adopt the imported machine core and conveyer provided with very high sensitivity and strong Anti-interference capability.

2) Send the sound and light alarms simultaneously when detecting the broken pins of other iron materials, and the conveyer will return or stop.

3) Realize the compatibility between model B and C machines for the customer selection.

4) Auto counting by using intelligent counter for the detected materials(qualified quantity, Quantity and the totals);

5) Use panel buttons for the setting of the sensitivity (0-12 steps adjustable), more accurate.

6) Four operation modes for customer selection.

7) Auto-starting and Auto-protection devices. Have equipment for programme locking.

Model	Detecting width(mm)	Detecting height(mm)	Sensitivity (ferrous ¢ in mm)	Remarks
DXTT-880	600	100	Φ0.8	*With a slanting detecting head*
		150	Φ1.0	
		200	Φ1.2	
		250	Φ1.5	
ZYZ—400C III	400	100	Φ0.8	
		150	Φ1.0	
		200	Φ1.2	
		250	Φ1.5	

HANDY PORTABLE PIN DETECTOR – MODELS : TY-20MJ & TY9-20MJ
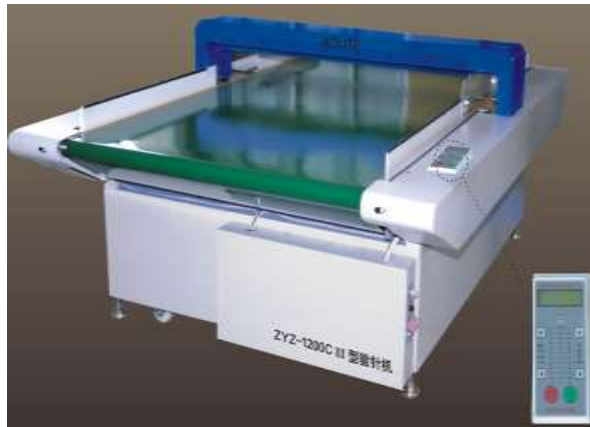
MODEL: **ZYZ-600 C3**

Detect sensitivity Fe^{+2}(mm): **1.2** detectable within 10mm

0.7 x 20 detectable within 50mm

Power supply & Wt: 6F 22-9V battery & 280 grams

DxWxH (mm):   **135 x 65 x 35**

References:

1) **Klash Textile, FSD   01** units

2) **U.S Apparel, LHR   04** units

THE END

MODEL: ZYZ-1200 C3

Detect sensitivity Fe^{+2} (mm): ≥ 0.6 / desired
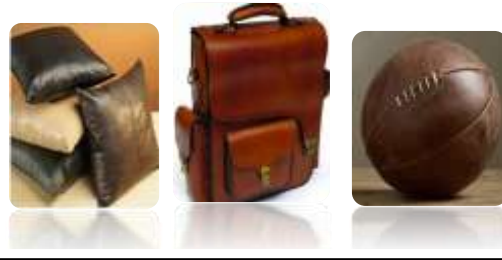
Detection heights (mm): ≥ 100 / desired

Detection widths (mm): 1200 / desired

Adjustment of sensitivity: 1-12

Motor Power & Wt: 140 W & 250 Kg

Volume LxWxH (mm): **2540 x 1650 x 900**

Characteristics:

Suitable for the thick detection for plush toys, shoe, and feather & down products industries. Have equipment for programme locking.

ZYZ-1600 C3

Model	Detecting width(mm)	Detecting height(mm)	Sensitivity (ferrous ¢ in mm)	Remarks
ZYZ-1600C III	1600	100	Φ0.8	
		150	Φ1.0	
		200	Φ1.2	
		250	Φ1.5	

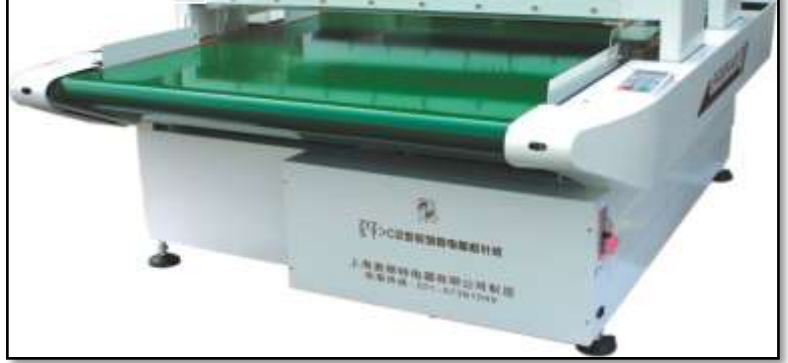**THE END**

ST-600 C3

DUAL-PROBE PIN DETECTOR

Detect sensitivity Fe^{+2}(mm): **≥ 0.6 / desired**

Detection heights (mm):   100 / as desired

Detection widths (mm):   600 / as desired

Adjustment of sensitivity: 1-12

Motor Power & Wt: 90 W & 300 Kg

Volume LxWxH (mm):   **2540 x 1050 x 900**
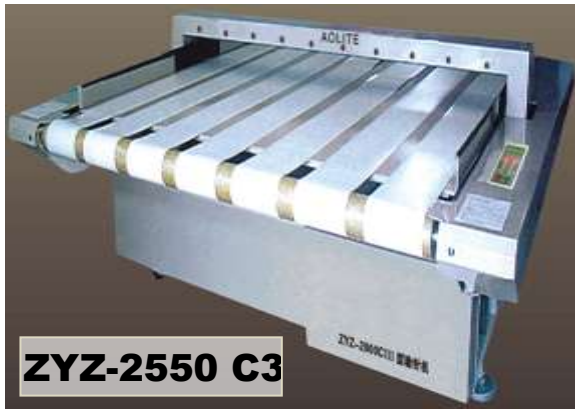
ST-1200 C3

Application Performance: ST-600 C3   /   ST-1200 C3

1) Adopt the imported machine core and conveyer provided with very high sensitivity and strong Anti-interference capability.
2) Send the sound and light alarms simultaneously when detecting the broken pins of other iron materials, and the conveyer will return or stop.
3) Realize the compatibility between model B and C machines for the customer selection.
4) Auto counting by using intelligent counter for the detected materials(qualified quantity, Quantity and the totals);
5) Use panel buttons for the setting of sensitivity (0-12 steps adjustable), more accurate
6) Four operation modes for customer selection.
7) Auto-starting and Auto-protection devices. Have equipment for programme locking.

Model	Detecting width(mm)	Detecting height(mm)	Sensitivity (ferrous ¢ in mm)	Remarks
ST−600C III	600	100	Φ0.8	With two detecting heads
		150	Φ1.0	
		200	Φ1.2	
		250	Φ1.5	
		300	Φ1.8	
ST−1200C III	1200	100	Φ0.8	
		150	Φ1.0	
		200	Φ1.2	
		250	Φ1.5	

THE END

ZYZ-2550 C3

MODEL: **ZYZ-2000 C3**

Detect sensitivity Fe^{+2}(mm): ≥ 0.6 / as desired

Detection heights (mm): 100 / as desired

Detection widths (mm): 2000 / as desired

Adjustment of sensitivity: 1-12

Motor Power & Wt: 180 W & 500 Kg
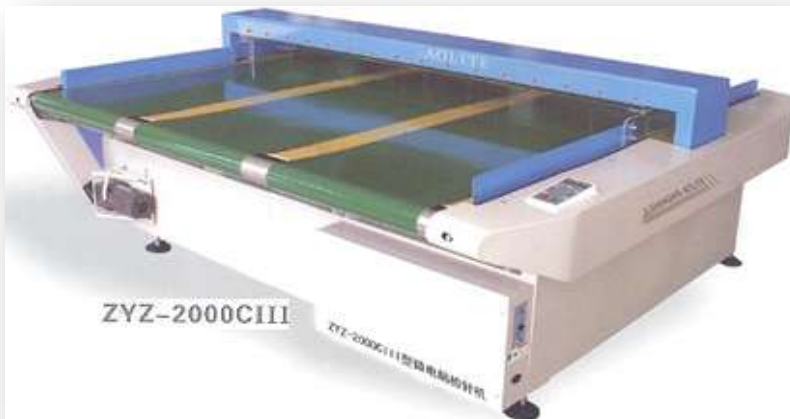
Volume LxWxH (mm): **2540 x 2450 x 900**

References:

1) **Gul Ahmed Textile, KHI, for polyfill**

   Spreads – ZYZ-2550 C3 / **02** units

2) **Al-Karam Textile, KHR, for polyfill Spreads**

   – ZYZ-2000 C3 / **01** units

3) **Younas Textile, Landi-KHR, for polyfill**
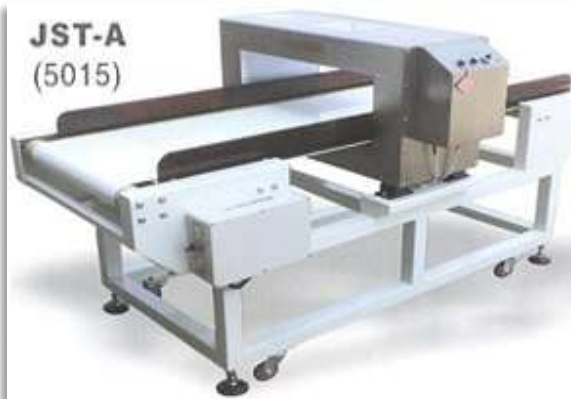
   Spreads – ZYZ-2000 C3 / **02** unit

Application Performance:

1) Adopt the imported machine core and conveyer, provided with very high sensitivity and very strong anti-INTERFERENCE CAPABILITY.
2) Send the sound and light alarms simultaneously when detecting the broken pins or other iron materials and the converter will return or stop.
3) Realize the compatibility between Model B and C machines for the customer selection.
4) Detection Sensitivity: Φ 0.6Fe Standard Test Block step less free-adjustable or delivered as per requirement.
5) Auto-keep the records for the quantity of the detected materials.
6) Have equipment for programme locking for consistent inspection.

Model	Detecting width(mm)	Detecting height(mm)	Sensitivity (ferrous ¢ in mm)	Remarks
ZYZ-2000CIII	2000 2300 2550	100	Φ0.6 ‖ Φ0.8	
		150	Φ1.0	
		200	Φ1.2	
		250	Φ1.8	

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JST-A (5035)

JST-A (5015)

Model	Detecting width(mm)	Detecting height(mm)	Sensitivity (ferrous ¢ in mm)	Remarks
JST-A 500 Series	500	100	Φ0.5	Capable of detecting ferrous & non-ferrous substances
		150	Φ0.6	
		200	Φ0.8	
		250	Φ1.0	
		300	Φ1.2	
		350	Φ1.5	

APPLICATION IN WEAVING/ SPIN

Weaving waste selvedge/ spinning fibrous tufts recirculation for lab former to be sold in local market with value addition

OTHER APPLICATIONS

NON FERROUS DETECTION

SOCKS ALL METAL INSPECTION

JST-A MODEL COMPLETE DETAIL													Unit: mm
		4015	4020	4030	5015	5020	5025	5030	6015	6020	6025	6030	6035
The caliber the width LB	Width	460			560				660				
Caliber height LH	Height	180	230	330	180	230	280	330	180	230	280	330	380
The maximum diameter of the measured object (effective detection)	Width	400			500				600				
	Height	150	200	300	150	200	250	300	150	200	250	300	350
Sensitivity	Fe (iron ball)	0.80	1.00	1.30	0.80	1.00	1.20	1.30	0.80	1.00	1.20	1.30	1.50
	SUS304 (stainless steel ball)	1.50	2.00	2.50	1.50	2.00	2.20	2.50	2.00	2.20	2.50	3.00	3.50

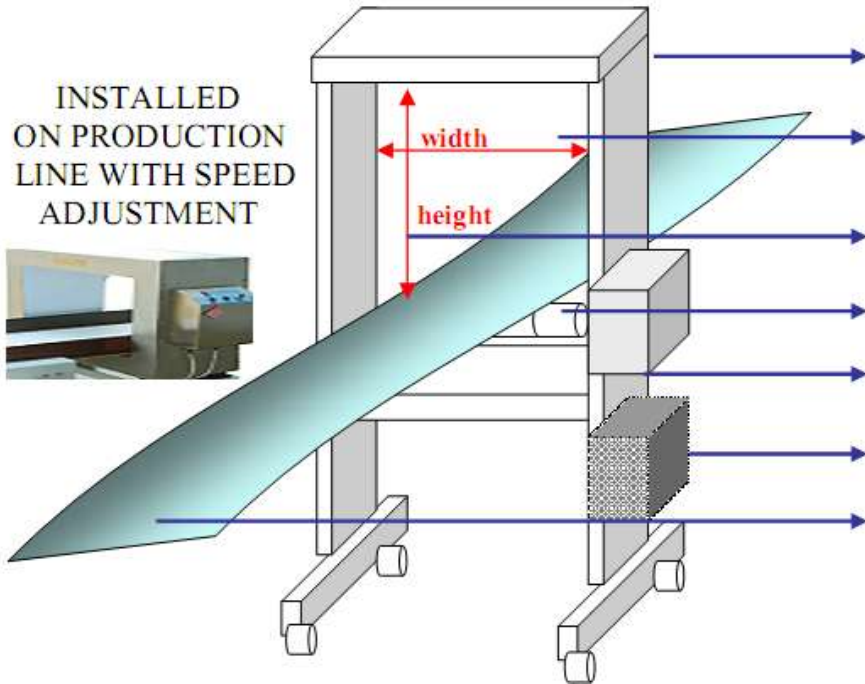Note: special specifications can be customized

JST-A Model   (Applicable for all Textiles, also for Food & Medicines)

1) Can detect all kind of metal objects in the subject matter / customer product.
2) Best suitable for the detection of needle textiles, feather and other home textile products.
3) Best suitable for the detection of food, medicine, aquatic products and fruits and vegetables.
   (specification needs to be discussed before finalizing a model.
4) Also can be used for the detection of chemical raw materials, rubber, paper, etc.
5) Bran-new circuit design, with high sensitivity, high reliability.
6) Iron and non-metallic detection level of sensitivity and phase were not adjustable.
7) The detection sensitivity of the ferrous metals up to φ0.8 mm (15 cm high).
8) The sensitivity of detection of non-ferrous metals up to φ1.5 mm (15 cm high).
9) LED indicators indicate the sensitivity of iron and non-iron.
10) Panasonic motor/ Matsushita Electric, Japanese chips, conduction band reached the level of food safety.

INSPECTION MACHINES FOR FOOD & MEDICINES

Aolite metal detector with ejecting slide

Goods that pass the inspection will fall onto the slide to the receiving section/belt/box.

In case the detecting head captures NOK goods, usual alarms will be given and the slide will lift to drop down the NOK goods. The dropping space can be designed as needed.

INSTALLED
ON PRODUCTION
LINE WITH SPEED
ADJUSTMENT

JST-A 200 / 225   or   desired x-height & y-width

Width: 200 mm   (belt width is 150mm, need 25 mm extra on both sides)

Height: 225 mm (from "customer belt" or "driven cylinder" to m/c top)

Driven cylinder for supporting belt

Operating panel

On / Off panel

Customer belt having inspection products

Sensitivity   :   Ferrous 0.8mm   ;   Non ferrous 2.0 mm

THE END

Application Scope of MODELS: ZYZ-2000C / KX2000A

Mainly for bedding, feathers & down Products particularly suitable for non woven fabrics, spray bonded cotton, croc heated fabric etc and also for the joint operation with the related equipment "Cloth Roller Machine".

Characteristics:

- Easy, convenient and practical operation.
- Display the position of broken pins
- Stability and sensitivity better than those of the same kinds of pin detectors

References:

1) **Mundia Export,** SITE- **KHR [for Polyfill]   ZYZ-3000 C / 01 unit**

2) **SAH Enterprises,** EPZ- **KHR [for Polyfill]   KX-3000 A / 01 unit**

Technical Specifications of both models:

Detect sensitivity Fe^{+2}(mm):	**≥ 0.8 – 1.5 / as desired**
Detection heights (mm):	100 – 250 / as desired
Detection widths (mm):	2000 / as desired
Adjustment of sensitivity:	1-12
Motor Power & Wt:	180 W & 600 Kg

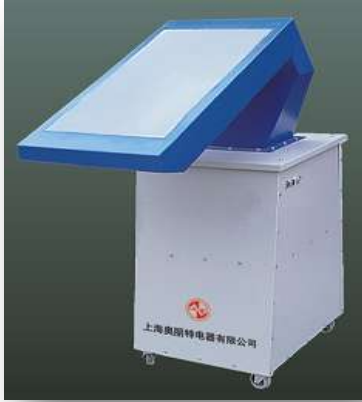Volume LxWxH (mm): **ZYZ-2000C = 2300 x 550 x 880**

KX2000A = 2300 x 550 x 850

ZYZ-2000C

Model	Detecting width(mm)	Detecting height(mm)	Sensitivity (ferrous ¢ in mm)	Remarks
ZYZ-2000C	2000 3000 3300 SP	100	Φ0.8	
		150	Φ1.0	
		200	Φ1.2	
		250	Φ1.5	

KX-2000A

Model	Detecting width(mm)	Detecting height(mm)	Sensitivity (ferrous ¢ in mm)	Remarks
KX-2000A (stand style, detecting gap adjustable)	2000 3000 3300 SP	Within 5mm	Φ1.2	

THE END

THRUM-SUCKER MACHINE

MODEL: SAY-1:
Thrum-Sucker Machine

Operation Air Flow: **3600^3/h**

Operation Air Pressure: 350mm H$_2$O

Motor Power & Wt: 1.5 KW & 150 Kg

Volume LxWxH (mm): **1570 x 700 x 1600**

APPLICATIONS:

The centrifugal venting, negative-pressure air-suction principle is mainly used in this machine to eliminate the clothing sewing impurities staining on Various shirts, trousers, pajama trousers etc. such as thrums and dusts able to ensure the exterior quality of the clothes and increase the grades of the clothe products.

NGH BONDING MACHINE

Model	NHG — 900	NHG — 600	NHG — 600
(V) Power supply	380V	220V(380V)	
9.6Kw Power	7.2Kw	3.6Kw	
Model pressurize type	Roller type	Roller type	Roller type
Bonding temperature	0-200 ℃	0-200 ℃	0-200 ℃
Bonding width	**0-900mm**	**0-600mm**	**0-500mm**
Dimensions (cm)	$295 \times 150 \times 120$	$235 \times 110 \times 105$	$165 \times 900 \times 95$

BRUSH FEATHER MACHINE

MODEL: **SM-2**

The work surface mm: 1200 x 700

Brush roller adjustable Have
Up & Down:

Extremely dimensions: 1200 x 700 x 8500

Fan Motor & weight: 0.55KW & 88 Kg

Brush roller motor: 0.37KW (380V/220V)

APPLICATION:

The centrifuge negative pressure suction and mechanical brush roller while running to eliminate sticky residue in knitting, wool, man-made woolen goods clothing, your production of apparel in the factory before packaging can quickly and easily brush net attached to clothing, short-haired, flying hair, velvet prime residue.

THE END

COMPARISON OF AOLITE WITH OSHIMA

Sr. No.	Description	Oshima Metal Detectors	Aolite Metal Detectors	Additional Comments
1	Origin	Taiwan Made (not with Chinese Made)	China Made	
2	Magnetic Sensitivity	Non-Uniform Sensitivity; The sensitivity goes down when the height of the bed sheet increases. This causes the 1.2 mm calibration card to pass without detection randomly, may lead to audit failure.	Uniform Sensitivity: Due to the strong electromagnetic force generated at both top and bottom ensure the uniform sensitivity at all heights.	Aolite is more reliable.
3	Construction	The machine is equipped with magnetic coils at the bottom of the blanket and a copper strip at the top. The emf reduces when it goes up from the blanket surface.	The machine is equipped with magnetic coils at the bottom and top of the blanket, generating uniform emf between the blanket and the top	Aolite does not pass the calibration card even if the material height increases.
4	Blanket	The blanket has smooth exterior side and rough interior side. The rough side helps catching fluff and dust, contaminated with metal fines. This leads to false indication.	Aolite has developed a smooth blanket on both sides, easy to clean from fluff and dust.	Aolite is maintenance friendly.
5	After Sales Support	Need a strong follow up for the after sales repairs, but are attended in due course.	YTM has taken the feedback from one customer like Gul Ahmed using 22 Aolite machines and they are very satisfied with the after sales support for the last 4 years.	
6	Cost	Very costly (Rs. 450,000/-) For sensitivity 1.2 mm minimum on Fe++	Lower cost more reliable ref. (Rs. 400,000) for all three models	Aolite is economical
7	Production Capacity	100 mm height with 1.2 sensitivity	100 mm height with 0.6 sensitivity 200 mm height with 1.0 sensitivity 300 mm height with 2.0 sensitivity	Aolite Single production capacity Aolite Double production
8	Training		Aolite provides training to technicians and operators for the effective use of the machine.	`

AOLITE METAL DETECTOR MODELS & MULTIPLE APPLICATIONS

THANK YOU

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THE END