

- OUR SERVICE NETWORK
- MARK
- Service centre at MALAYSIA



SMART SORTING SOLUTION FOR YOUR PRODUCT



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COMPANY PROFILE

In the year of 2005 three young dynamic entrepreneurs decided to launch Color sorters with provisions for multi grain color sorter machines in India.

About more than 4500 millers in all over India and abroad had chosen the mark color sorters to make their products in pure.

Mark commitment is manufacturing the best color sorter in the market and is characterized by listening closely and understanding the needs of the industry by using the strong focus on design and technology coupled with the best manufacturing facility. It also provides very good service team in all over India and abroad.

The most rigorous quality control through the entire manufacturing process, Mark introduces the new range of color sorters with our pain-standing experience in color sorting field. Advanced technologies are adapted and updated according to millers need.

Mark color sorter gives significant performance in all types of food grains such as Rice, Duar Dhall, Urad Dhall, Wheat, Cashewnut, Plastic and other all food grains.



5000x3 Pixel Tri-Chromatic color camera with RGB
Double Side Camera Technology
1 MS Ejector



Wi-Fi

MARK TRENDZ 5 CHUTE

FRAME	5 Chute	
Chute option Available	5 Chute	4 Chute
Chute Distribution (P+S+F)	3+1+1	2+1+1
Output (TPH)	3 to 5	2 to 4
No. of Camera (F&R)	5+5	4+4
Air @ 7.5kg/cm ²	90 CFM	72 CFM
Power Requirement	10 KVA	
Compressor Requirement	20 HP Screw Comp.	
Dimension [LxWxH] [Feet]	7.16 x 4.75 x 5.83	
Cabin Dimension [LxWxH] [Feet]	12 x 10 x 8	

Note 1 : Output load and rejection will be vary depend upon input materials contamination and dust
2 : 2% Contamination

FEATURES OF TRENDZ 5 CHUTES

- FPGA [Field Programmable Gate Array] image processing is minimum flaw size at 0.068mm
- 5000X3 pixel higher sensitive Tri-Chromatic CCD color camera with high speed image reading system with RGB technology
- High speed pneumatic systems with low air consumption
- Fully digital FPGA image processing with micro controller supported ensures high output with low rejection
- Option in LED light color changing
- Internet & Mobile control facility
- Touch screen control panel to feed 15 programs
- Automatic self cleaning system
- Reverse sorting method
- Ejectors can test through Systems / Laptops
- Chalky rice mode
- Ejection rate displayed
- Machine can be controlled by computer and mobile



Input Output Rejection

MARK TRENDZ 7 CHUTE

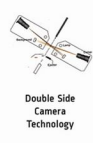


Frame	7 Chute	
Chute option Available	7 Chute	6 Chute
Chute Distribution [P+S+F]	4+2+1	4+1+1
Output [TPH]	4 to 7	3 to 6
No. of Camera [F&R]	7+7	6+6
Air @ 7.5kg/cm ²	126 CFM	108 CFM
Power Requirement	10 KVA	
Compressor Requirement	30 HP Screw Comp.	
Dimension [LxWxH] [Feet]	9.46 x 4.75 x 5.83	
Cabin Dimension [LxWxH] [Feet]	14 x 10 x 8	

Note 1 : Output load and rejection will vary depend upon input materials contamination and dust
2 : 2% Contamination

FEATURES OF TRENDZ 7 CHUTES

- FPGA [Field Programmable Gate Array] image processing is minimum flaw size at 0.068mm
- 5000X3 pixel higher sensitive Tri-Chromatic CCD color camera with high speed image reading system with RGB technology
- High speed pneumatic systems with low air consumption
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- Machine can be controlled by computer and mobile



Frame	10 Chute		
Chute option Available	10 Chute	9 Chute	8 Chute
Chute Distribution [P+S+F]	6+2+2	5+2+2	5+2+1
Output [TPH]	6 to 9	5 to 8	4.5 to 7
No. of Camera [F&R]	10+10	9+9	8+8
Air @ 7.5kg/cm ²	180 CFM	162 CFM	144 CFM
Power Requirement	10 KVA		
Compressor Requirement	40 HP Screw Comp.		
Dimension [LxWxH] [Feet]	12.86 x 4.75 x 5.83		
Cabin Dimension [LxWxH] [Feet]	17 x 10 x 8		

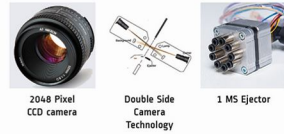
Note 1 : Output load and rejection will vary depend upon input materials contamination and dust
2 : 2% Contamination

FEATURES OF TRENDZ 10 CHUTES

- FPGA [Field Programmable Gate Array] image processing is minimum flaw size at 0.068mm
- 5000X3 pixel higher sensitive Tri-Chromatic CCD color camera with high speed image reading system with RGB technology
- High speed pneumatic systems with low air consumption
- Fully digital FPGA image processing with micro controller supported ensures high output with low rejection
- Option in LED light color changing
- Internet & Mobile control facility
- Touch screen control panel to feed 15 programs
- Automatic self cleaning system
- Reverse sorting method
- Ejectors can test through Systems / Laptops
- Chalky rice mode
- Ejection rate displayed
- Machine can be controlled by computer and mobile



MARK J-400 RICE SORTER



Channels Available	400 Channels	360 Channels	320 Channels
No. of Chute	10	9	8
Output [TPH]	3 to 6	3 to 5	3 to 4
No. of Camera [F&R]	10+10	9+9	8+8
Chute Distribution [P+S+F]	6+2+2	5+2+2	5+2+1
Air Requirement @ 7.5kg/cm ²	128 CFM	115 CFM	102 CFM
Power Requirement	10 KVA		
Dimension [LXWxH] [Feet]	8.5 X 4.25 X 5.9		
Cabin Dimension [LXWxH] [Feet]	12 x 10 x 8		
Air Compressor	30 HP		

Note 1 : Output load and rejection will be vary depend upon input materials contamination and dust
2 : % Contamination

FEATURES OF MARK J -400

- 2048 pixel higher sensitive CCD camera with high speed image reading system
- Minimum flaw size 0.09mm
- High speed pneumatic systems with low air consumption
- Fully DSP image processing with micro controller supported ensures high output with low rejection
- Option in LED light color changing
- 40 Groove chute - 4.2mm each channels
- Touch screen control panel to feed 15 programs
- Automatic self cleaning system
- Reverse sorting method
- Chalky rice mode



MARK J-280 RICE SORTER



Channels Available	Mark-J-280	Mark-J-240
No. of Chute	7 Chute	6 Chute
Output [TPH]	3 to 5	2.5 to 4
No. of Camera	7+7	6+6
Chute Distribution [P+S+F]	4+2+1	3+2+1
Air Requirement @ 7.5kg/cm ²	90 CFM	80 CFM
Power Requirement	10 KVA	
Dimension [LXWxH] [Feet]	6.5 X 5 X 6	
Cabin Dimension [LXWxH] [Feet]	10 X 10 X 8	
Air Compressor	20 HP	

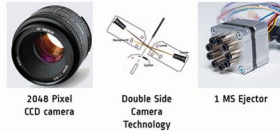
Note 1 : Output load and rejection will be vary depend upon input materials contamination and dust
2 : % Contamination

FEATURES OF MARK J -280

- 2048 pixel higher sensitive CCD camera with high speed image reading system
- Minimum flaw size 0.09mm
- High speed pneumatic systems with low air consumption
- Fully DSP image processing with micro controller supported ensures high output with low rejection
- Option in LED light color changing
- 40 Groove chute - 4.2mm each channels
- Touch screen control panel to feed 15 programs
- Automatic self cleaning system
- Reverse sorting method
- Chalky rice mode



MARK J-196 RICE SORTER



Channels Available	Mark-J-196	Mark-J-168	Mark-J-140
No. of Chute	7 Chute	6 Chute	5 Chute
Output [TPH]	2.5 to 5	2 to 4.5	1.5 to 4
No. of Camera [F&R]	7+7	6+6	5+5
Chute Distribution [P+S+F]	4+2+1	3+2+1	3+1+1
Air Requirement @ 7.5kg/cm ²	72 CFM	60 CFM	48 CFM
Power Requirement	10 KVA		
Dimension [LXWxH] [Feet]	6.5 X 5 X 6		
Cabin Dimension [LXWxH] [Feet]	10 X 10 X 8		
Air Compressor	15 HP		

Note 1 : Output load and rejection will be vary depend upon input materials contamination and dust
2 : 2% Contamination

FEATURES OF MARK J - 196 ■

- 2048 pixel higher sensitive CCD camera with high speed image reading system
- Minimum flaw size 0.09mm
- High speed pneumatic systems with low air consumption
- Fully DSP image processing with micro controller supported ensures high output with low rejection
- Option in LED light color changing
- 28 Groove chute - 6.0mm each channels
- Touch screen control panel to feed 15 programs
- Automatic self cleaning system
- Reverse sorting method
- Chalky rice mode



MARK JX-280 DALL & PULSE SORTER



Channels Available	Mark-Jx-280	Mark-Jx-252	Mark-Jx-224
No. of Chute	10 Chute	9 Chute	8 Chute
Output [TPH]	3.5 to 6.5	3 to 6	3 to 5
No. of Camera [F&R]	10+10	9+9	8+8
Chute Distribution [P+S+F]	6+2+2	5+2+2	5+2+1
Air Requirement @ 7.5kg/cm ²	94 CFM	86 CFM	78 CFM
Power Requirement	10 KVA		
Dimension [LXWxH] [Feet]	8.5 X 4.25 X 5.9		
Cabin Dimension [LXWxH] [Feet]	12 X 10 X 10		
Air Compressor	20 HP		

Note 1 : Output load and rejection will be vary depend upon input materials contamination and dust
2 : 2% Contamination

FEATURES OF MARK JX-280 ■

- Double side view technology objects viewed from front and rear
- 5000X2 pixel higher sensitive CCD Bi-Chromatic camera its realizes discolored area less than 0.068mm
- Advance optical sorting system with specially made high speed ejectors and high speed vision control arithmetic and communication protocol secures high sorting index
- Wide channels for materials input, configured with high speed digital processing technology system assemblization and sorting is highly perfected
- Based on touch screen operation and manual operation interface is more human friendly
- Option in LED light color changing
- Single sorting remove different color materials
- Multicolor sorting
- Automatic background changing facility based on input commodity.
- 28 Groove chute – 6 mm each channels
- Touch screen control panel to feed 15 programs
- Automatic self cleaning system
- Reverse sorting method

MARK JX-196

DALL & PULSE SORTER



5000x2 Pixel Bi-Chromatic CCD camera



Double Side Camera Technology



1 MS Ejector

Channels Available	Mark-Jx-196	Mark-Jx-168	Mark-Jx-140
Chute	7 Chute	6 Chute	5 Chute
Output [TPH]	2.5 to 5	2 to 4.5	1.5 to 4
No. of Camera [F&R]	7+7	6+6	5+5
Chute Distribution [P+S+F]	4+2+1	3+2+1	3+1+1
Air Requirement @ 7.5kg/cm ²	72 CFM	60 CFM	48 CFM
Power Requirement	10 KVA		
Dimension [LXWxH] [Feet]	6.5 X 5 X 6		
Cabin Dimension [LXWxH] [Feet]	10 X 10 X 8		
Air Compressor	15 HP		

Note 1 : Output load and rejection will be vary depend upon input materials contamination and dust
2 : 2% Contamination

FEATURES OF MARK JX-196 ■

- Double side view technology objects viewed from front and rear
- 5000X2 pixel higher sensitive CCD Bi-Chromatic Camera its realizes discolored area less than 0.068mm.
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- Option in LED light color Changing
- Single sorting remove different color materials
- Multicolor sorting
- Automatic background changing facility based on input commodity.
- 28 Groove chute – 6 mm each channels
- Touch screen control panel to feed 15 programs
- Automatic self cleaning system
- Reverse Sorting method



5000x2 Pixel Bi-Chromatic CCD camera



Double Side Camera Technology



1 MS Ejector

Channels Available	Mark-Jx-180	Mark-Jx-160
Chute	9 Chute	8 Chute
Output [TPH]	3 to 6	2.5 to 5
No. of Camera [F&R]	9+9	8+8
Chute Distribution [P+S+F]	5+2+2	4+2+2
Air Requirement @ 7.5kg/cm ²	72 CFM	60 CFM
Power Requirement	10 KVA	
Dimension [LXWxH] [Feet]	8.5 X 4.25 X 5.9	
Cabin Dimension [LXWxH] [Feet]	12 X 10 X 8	
Air Compressor	20 HP	

Note 1 : Output load and rejection will be vary depend upon input materials contamination and dust
2 : 2% Contamination

MARK JX-180

DALL & PULSE SORTER

FEATURES OF MARK JX-180 ■

- Double side view technology objects viewed from front and rear
- 5000X2 pixel higher sensitive CCD Bi-Chromatic camera its realizes discolored area less than 0.068mm.
- Advance optical sorting system with specially made high speed ejectors and high speed vision control arithmetic and communication protocol secures high sorting index.
- Wide channels for materials input, configured with high speed digital processing technology system assemblization and sorting is highly perfected
- Based on touch screen operation and manual operation interface is more human friendly.
- Option in LED light color changing
- Single sorting remove different color materials
- Multicolor sorting
- Automatic background changing facility based on input commodity.
- 20 Groove chute – 8 mm each channels
- Touch screen control panel to feed 15 programs
- Automatic self cleaning system
- Reverse sorting method



MARK JX-120 DALL & PULSE SORTER



5000x2 Pixel Bi-Chromatic CCD camera



Double Side Camera Technology



1 MS Ejector

Channels Available	JX-120	JX-100	JX-80
Chute option Available	6 Chute	5 Chute	4 Chute
Chute Distribution (P+S+F)	60+40+20	60+20+20	40+20+20
Output (TPH)	2 to 4	1.50 to 3	1 to 2.5
No. of Camera (F&R)	6+6	5+5	4+4
Air Requirement	40 CFM	36 CFM	28 CFM
Power Requirement	3 KVA		
Machine Dimension (LxWxH) [Feet]	6 X 4.08 X 6.5		
Cabin Dimension (LxWxH) [Feet]	10 X 10 X 8		
Air Compressor	15 HP Reciprocating		

Note 1 : Output load and rejection will be vary depend upon input materials contamination and dust
2 : 2% Contamination

FEATURES OF MARK JX-120

- "MARK" domestically first initiated CCD Bi-Chromatic camera technology, 5000x2 Pixel, Realizes discolored area less than 0.068mm, Applicable for different pulses and nuts sorting solutions
- Advance optical sorting room, Specially made high speed ejector and high speed vision control arithmetic and communication protocol secures high sorting index
- Wide channel for material input, Configured with high speed digital processing technology, System assemblization and sorting is highly perfected
- Based on touch screen operation manual, The operation interface is more human friendly
- Adoption of high sensitivity and special computerization system, Defects of different material can be removed, Super sorting performance is secured
- Single sorting remove different color materials
- Suitable for Grain, Dhall, Beans & Pulses
- Multi color sorting
- Automatic background changing facility based on input commodity
- 15 programs presets for variety of products
- 20 channel groove each chute, 8 mm width each channel



5000x2 Pixel Bi-Chromatic CCD camera



Double Side Camera Technology



1 MS Ejector

Channels Available	Smart SPRINT-126	Smart SPRINT-90	Smart SPRINT-54
Chute option Available	7 Chute	5 Chute	3 Chute
Chute Distribution (P+S)	5+2	3+2	2+1
Output (KG) Per/hr	400 to 750	280 to 500	150 to 300
No. of Camera (F&R)	7+7	5+5	3+3
Air Requirement	50 CFM	45 CFM	30 CFM
Machine Dimension (LxWxH) [Feet]	7.66 X 4.25 X 5	6.66 X 4.25 X 5	5 X 4.25 X 5
Cabin Dimension (LxWxH) [Feet]	12 X 10 X 8	10 X 10 X 8	6 X 6 X 4
Air Compressor	15 HP	15 HP	10 HP
Power Requirement	3 KVA		

Note 1 : Output load and rejection will be vary depend upon input materials contamination and dust
2 : 2% Contamination

FEATURES OF SMART SPRINT

- Compact machine
- SPL Designed for whole cashew & Baby cashew
- Avoiding whole cashew breaking Loss
- Excellent result oriented
- Maintenance free
- Easy to operate
- 5000x2 Pixel Bichromatic color camera double side view technology
- High speed ejector valves
- Color LCD Touch screen
- LED Lighting system
- 15 Program presets of variety of products
- Flat chute / Groove chute - optional

SMART SPRINT-126 CASHEW NUT



MARK JX-120 DALL & PULSE SORTER



5000x2 Pixel Bi-Chromatic CCD camera



Double Side Camera Technology



1 MS Ejector

Channels Available	JX-120	JX-100	JX-80
Chute option Available	6 Chute	5 Chute	4 Chute
Chute Distribution (P+S+F)	60+40+20	60+20+20	40+20+20
Output (TPH)	2 to 4	1.50 to 3	1 to 2.5
No. of Camera (F&R)	6+6	5+5	4+4
Air Requirement	40 CFM	36 CFM	28 CFM
Power Requirement	3 KVA		
Machine Dimension (LxWxH) [Feet]	6 X 4.08 X 6.5		
Cabin Dimension (LxWxH) [Feet]	10 X 10 X 8		
Air Compressor	15 HP Reciprocating		

Note 1 : Output load and rejection will be vary depend upon input materials contamination and dust
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FEATURES OF MARK JX-120

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- Suitable for Grain, Dhall, Beans & Pulses
- Multi color sorting
- Automatic background changing facility based on input commodity
- 15 programs presets for variety of products
- 20 channel groove each chute, 8 mm width each channel



5000x2 Pixel Bi-Chromatic CCD camera



Double Side Camera Technology



1 MS Ejector

Channels Available	Smart SPRINT-126	Smart SPRINT-90	Smart SPRINT-54
Chute option Available	7 Chute	5 Chute	3 Chute
Chute Distribution (P+S)	5+2	3+2	2+1
Output (KG) Per/hr	400 to 750	280 to 500	150 to 300
No. of Camera (F&R)	7+7	5+5	3+3
Air Requirement	50 CFM	45 CFM	30 CFM
Machine Dimension (LxWxH) [Feet]	7.66 X 4.25 X 5	6.66 X 4.25 X 5	5 X 4.25 X 5
Cabin Dimension (LxWxH) [Feet]	12 X 10 X 8	10 X 10 X 8	6 X 6 X 4
Air Compressor	15 HP	15 HP	10 HP
Power Requirement	3 KVA		

Note 1 : Output load and rejection will be vary depend upon input materials contamination and dust
2 : 2% Contamination

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- Compact machine
- SPL Designed for whole cashew & Baby cashew
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- High speed ejector valves
- Color LCD Touch screen
- LED Lighting system
- 15 Program presets of variety of products
- Flat chute / Groove chute - optional

SMART SPRINT-126 CASHEW NUT



SMART-X-120



2048 Pixel CCD camera



Double Side Camera Technology

Channels Available	Smart X-60			Smart X-120	
	40 Channels	60 Channels	80 Channels	100 Channels	120 Channels
Chute option Available	2 chute	3 Chute	4 Chute	5 Chute	6 Chute
Chute Distribution (P+S+F)	1+1	2+1	2+1+1	3+1+1	4+2+2
Output (TPH)	0.5 to 1.5	0.5 to 2.0	1.0 to 2.5	1.25 to 2.5	1.53 to 3.0
No. of Camera (F&R)	2+2	3+3	4+4	5+5	6+6
Air Requirement [72-114 psig] [5-8bar]	18 CFM	21 CFM	28 CFM	32 CFM	42 CFM
Power Requirement	2 KVA		3 KVA		
Machine Dimension (LxWxH) [Feet]	3.5 X 4.58 X 6.33			6 X 4.58 X 6.33	
Cabin Dimension (LxWxH) [Feet]	6 X 6 X 4			10 X 10 X 8	
Air Compressor	10 HP Reciprocating			15 HP Reciprocating	

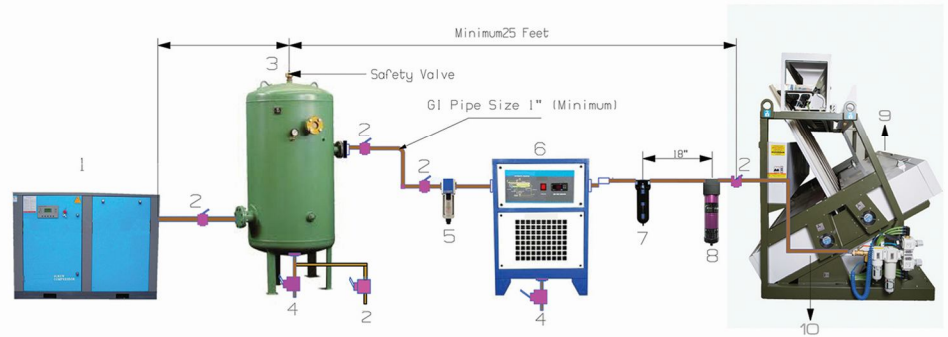
Note 1 : Output load and rejection will be vary depend upon input materials contamination and dust
2 : 2% Contamination

FEATURES OF SMART-X

- 2048 pixel CCD camera technology
- Double side view
- Single board construction
- High speed ejector valves
- Easy operation
- High performance chutes
- Channel options and upgrade
- Two stage resorting
- Low and simple maintenance
- Each channels with 8mm
- 1chute-20 groove, each channel width 8 mm



Compressor To Machine



1. Screw Compressor
2. Control valve (Manual Drain Valve)
3. Air Receiver Tank
4. Auto Drain valve Timer
5. Pre Filter 5.0 Micron
6. Air Drier
7. After Filter 1.0 Micron
8. Special Micro filter for oil removal 0.001 Micron
9. Mark Sorting Machine
10. Dry air only flow (Don't allow oil & water parts inside the pipeline)

