

# Colour Sorter

Model : S90

IPMA INDUSTRY SDN. BHD.

益马工业有限公司

198501004398 (136837-P)



590-series has been developed to show its best sorting efficiency and sustain at any bad environmental conditions by applying internationally qualified main parts from Japan and USA. (This reason we can get the CE certification from EU.)

**MADE IN KOREA**



Using the wireless tablet PC.  
Intuitive interface is easy to use.

## OUTSTANDING FEATURES



### RGB CCD Camera (NIKON)

RGB Camera that 18 million color realization with **24 bits TRUE COLOUR** sensor so it can be 0.014mm detection from 4096 pixel high resolution sensor



### Real time camera Calibration

Resolution of Camera is very excellent by automatic real time Calibration of 2048 pixels line scan-type.



### Application of Altera Xilinx FPGA Program

It supplies optimum efficiency during sorting progress.



### LED light

Lightening can be controlled and the life-time is semi-permanent by applying LED Light.



### DC Feeder

Frequency compensation method  
Feeder power can be used every where by developing inverter autonomously. It is not affected which changing of external power.



### Frame

Beautiful but strong. It is formed by curve totally, and it made by strong steel. So, it is not dangerous broken although heavy grain steadily.



### SMC Ejector equipped

It shoots over than 1200 times per second, which guarantees excellent sorting efficiency.



### Stainless material

Grain flowing material is made by stainless which guarantee clean grain production.



### Silicon Heater

Temperature can be controlled. Chutes can be protected from dusty and brain.



### Equipped Power(SMPS) COSEL(Japan)

High durability and rare mal-functioning Power Supplying System has been applied.



### 7-coated Chutes Channel-type, Flate-type

7-coated Chutes have been applied which prevents grain splatters during sorting progress and increases long life time.



### Japan SMC air-unit

It saves ejectors by prevention dust, oil and water.

Details provided about the properties and usability of the products are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

[www.ipmaindustry.com](http://www.ipmaindustry.com)

**IPMA**

Your One Stop Rice Processing And Solution Centre!

# Technical Specification

## Colour Sorter Model: S90



Tablet PC



Tablet PC



Tablet PC

### S90-CH192

DIMENSION (WxLxH)mm	1660x1500x1800
INPUT (Ton/hour)	2 ~ 4
POWER (Kw)	AC220V, 3.0~3.0KW
CHANNEL (ch)	192
COMPRESSOR (HP)	20 ~
WEIGHT (Kg)	700

### S90-CH256

DIMENSION (WxLxH)mm	1980x1500x1800
INPUT (Ton/hour)	3 ~ 5
POWER (Kw)	AC220V, 3.5~4KW
CHANNEL (ch)	256
COMPRESSOR (HP)	30 ~
WEIGHT (Kg)	800

### S90-CH320

DIMENSION (WxLxH)mm	2320x1500x1800
INPUT (Ton/hour)	3.5 ~ 5
POWER (Kw)	AC220V, 3.5~4KW
CHANNEL (ch)	320
COMPRESSOR (HP)	30 ~
WEIGHT (Kg)	900



Tablet PC

### S90-CH384

DIMENSION (WxLxH)mm	2640x1500x1800
INPUT (Ton/hour)	3.5 ~ 6
POWER (Kw)	AC220V, 3.5~4.5KW
CHANNEL (ch)	384
COMPRESSOR (HP)	30 ~
WEIGHT (Kg)	1,000



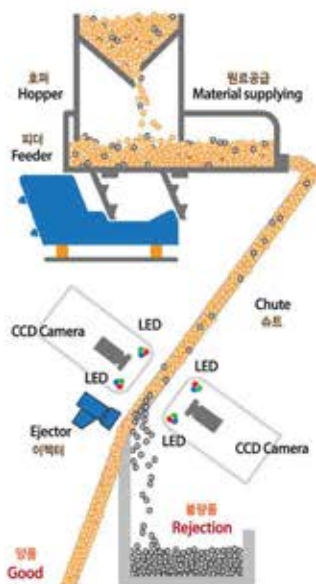
Tablet PC

### S90-CH448

DIMENSION (WxLxH)mm	2960x1500x1800
INPUT (Ton/hour)	4.0 ~ 7.5
POWER (Kw)	AC220V, 3.5~4.5KW
CHANNEL (ch)	448
COMPRESSOR (HP)	30 ~
WEIGHT (Kg)	1,100



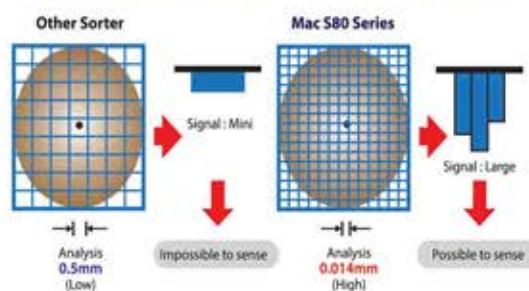
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### Sorting Principle

Semi-permanent high luminous LED, FULL COLOR CCD camera and high speed SMC Ejector are guaranteed to produce the best quality product.

### Analysis Ability of CCD Camera With R.G.B



### Sort of Rice

	Indica Rice	Rice	Glutinous rice	Brown rice	Black rice	Wheat
Raw Materials						
Good Quality						
Poor Quality						

### Sort of Beans

	Yellow bean	Black bean	Red bean	Dal	Coffee	Corn
Raw Materials						
Good Quality						
Poor Quality						

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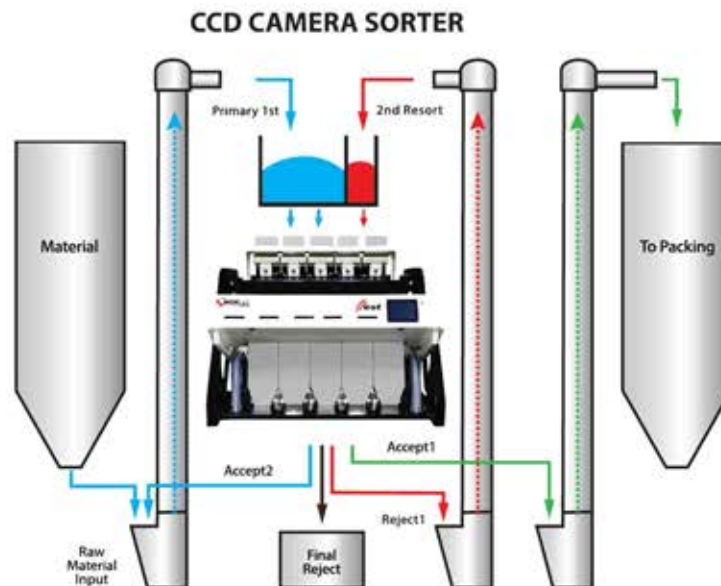
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# Technical Specification

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### Processing Flow

The height of Bucket Elevators shall be decided according to the installation environment.



### Operation Menu



Main screen

Intuitive interface



36 various mode



Self checking



Air-gun checking



Individual feeder control