

## About Us

### Satake Optical Sorting Solutions for cleaner and safer products.

Satake USA is a wholly owned subsidiary of Satake Corporation of Japan. Satake is a world leader in advanced optical sorting systems as well as rice and cereal milling equipment. From the Houston location, Satake USA develops and manufactures optical sorters in a 130,000 sq ft facility. A facility in Modesto, California for sales, service and spare parts serves the western United States.

Both Satake facilities contain a state-of-the-art applications lab allowing customers to send in their product to determine which optical sorter model will provide the highest efficiency and performance for each product sorted. After all, it's not a "one machine fits all" business – we customize a solution for each and every process!

In-house training facilities can be found at both Satake locations as well. Each training area has various optical sorters available for a combination of hands-on and classroom training. To further enhance the training experience, customers can bring in their product(s) which can be used for machine set up or trouble shooting exercises.

### Trust the Experience

The combined experience of Satake sales, support, manufacturing and engineering personnel far exceed hundreds of cumulative years in the industry. The unmatched level of professional service, experience and dedication is a benefit that comes standard on every Satake machine.

### The Satake Advantage

It is vitally important that Satake offers unmatched, industry-leading after the sales customer service and support. If an issue or question arises, Satake has trained personnel with decades of experience ready to answer the phone or respond to email. Our goal is 100 percent customer satisfaction!



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## FMSR-IR

Full Color RGB • Shape • Infrared Optical Sorter

**FMSR01-IR**  
One Chute

**FMSR02-IR**  
Two Chute

**FMSR03-IR**  
Three Chute



## FMSR-IR

The FMSR-IR is an efficient midsize sorter that features Full Color RGB + Shape + Infrared technology. It is ideal for sorting products such as dry beans, corn, nuts, coffee, seeds, plastics and multiple varieties of grain as well. The FMSR-IR features patent-pending Satake software assuring quick set-up and hassle-free operation. The FMSR-IR product line includes models with a one chute configuration, a two chute configuration and a three chute configuration.

### Typical Product Applications



**Purchased a single chute FMSR01-IR but need more capacity? A field retrofit kit to convert a one chute to a two chute is available**

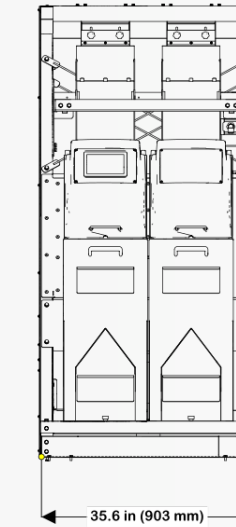
## Features and Benefits

- 1 Full color high-resolution RGB camera technology allows you to precisely customize your final product specifications and lead your market in customer satisfaction.
- 2 Infrared cameras, as well as size and shape sorting, all provide additional security for the removal of foreign material from your product, giving you and your customers peace of mind.
- 3 High Powered 5 mm air ejectors capable of precision air blast to remove the defective product from the acceptable stream and thereby increase the profitability of your production yield.
- 4 Stainless steel removable Accept/Reject Hoppers for easy cleaning and increased sanitation so avoiding downtime, as well as the security of your product.
- 5 Realtime accept and reject sampling allows for sort optimization and facilitates optimum machine settings resulting in the best yield possible.
- 6 Satake 3S Smart Sensitivity Software provides a simple, highly intuitive method for the operator to quickly optimize removal of impurities, making your production line as profitable as possible.
- 7 Easy accept and defect profile creation using the actual product to set parameters.
- 8 Advanced touch screen interface is designed for industrial use and easy access.
- 9 Vibratory feeder system creates a consistent and singulated product flow, increasing the efficiency and value of the optical sorting process.

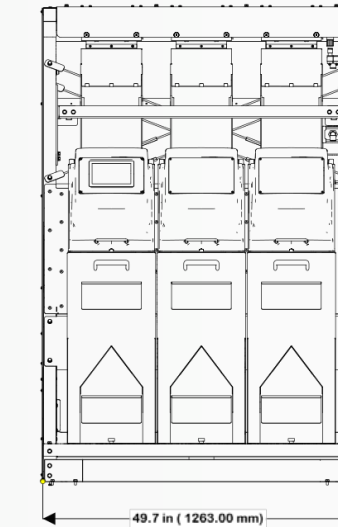


## Technical Specifications

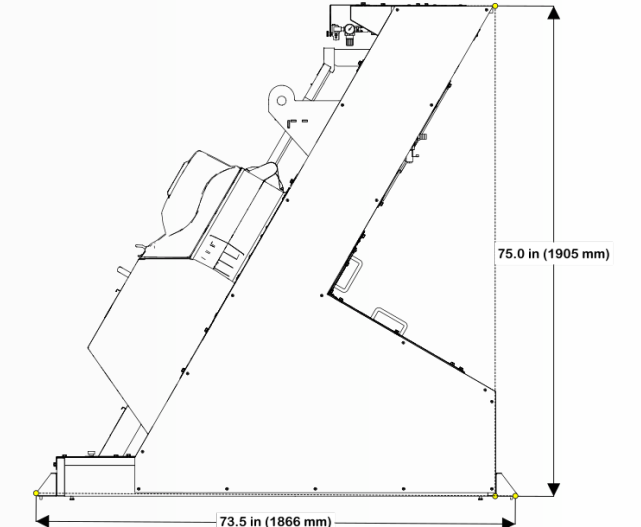
FMSR01 / FMSR02



FMSR03



All Models



### Dimensions

Model	Width in (mm)	Depth in (mm)	Height in (mm)	Weight lbs (kgs)
FMSR01-IR	35.6 (903)	73.5 (1866)	75.0 (1905)	600 (272)
FMSR02-IR	35.6 (903)	73.5 (1866)	75.0 (1905)	728 (330)
FMSR03-IR	49.7 (1263)	73.5 (1866)	75.0 (1905)	1019 (462)

### Power and Air Requirements

Model	Rated Voltage (V)	Power Consumption (kW)	Compressed Air Supply SCFM (m <sup>3</sup> /min)
FMSR01-IR	Single Phase	1.2	20 (0.57)
FMSR02-IR		1.2	40 (1.14)
FMSR03-IR	AC200-240V	1.8	60 (1.71)

### Temperature and Sound

Model	Temperature	Humidity	Noise Level
FMSR01-IR	0 - 40°C	85% or less (free from Condensation)	86 dB
FMSR02-IR			
FMSR03-IR			

## INTUITIVE INTERFACE

