



Introducing Delta's "Waterfall" Series

Advanced precision color sorters
for granular products





Our "Waterfall" Series leads the way with technical innovations in electronic color sorters.

Delta's revolutionary new series of electronic color sorters feature an innovative free-flow method of product transport, as well as patented electronic and optical systems that allow for higher production and the highest precision of sort. The "Waterfall Series" is comprised of the models **IGUAZU-PENTA™**, **IGUAZU-WORLDSORTER™**, and **IGUAZU-IR™**. Each features the same innovative free-flow method of product transport. These sorters require only a minimal amount of floor space, and also provide substantial savings in operating and maintenance costs.

Delta's "Waterfall Series" of designs have very few moving parts. Efficient digital electronic design eliminates any need for supplemental cooling systems, and allows for simplified, automatic operation.

Our advanced high-resolution optics pinpoint the slightest defect, and our sorters are capable of removing multiple color defects in a single pass. To the benefit of our customers, Delta systems can also be coupled with Infrared and Ultra Violet technologies for special applications.

At Delta, our goal is to help improve the quality of our customers' end product. As a company that is committed to research and development, we are proud to offer you the most technically advanced machines.

FEATURE:

Advanced optical system provides high resolution scanning; small defects and foreign material are removed more consistently

BENEFIT:

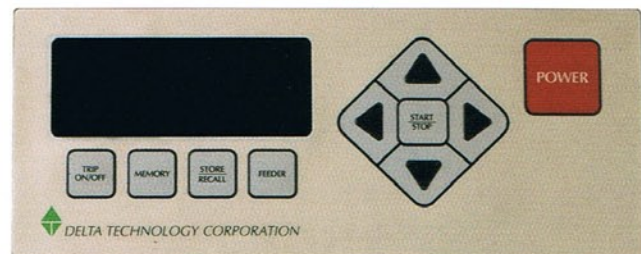
More precision sort and improved end product consistency

FEATURE:

Self-adjusting, fully automatic operating machines are easy to use and set up; computer memory stores settings at the touch of a button

BENEFIT:

Simplifies product processing; repeatable setup ensures product consistency, minimizes downtime associated with switching between products and also reduces the need for skilled operators



Easy to use sealed panel permits control of every facet of machine set up and operation

FEATURE:

High-speed, long-life ejectors with the capacity to sort a wide variety of products of all sizes such as rice, beans and nuts

BENEFIT:

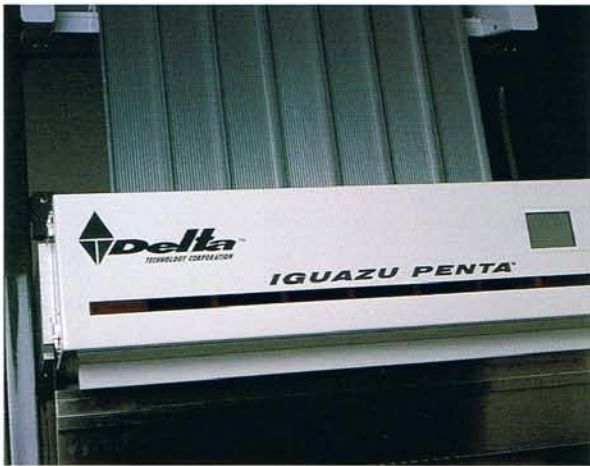
Less maintenance cost and improved precision of sort; minimizes good product wastage

FEATURE:

Advanced, highly-efficient power supply system operates on 120 VAC/60 Hz/1 phase or 240 VAC/50 Hz/1 phase; power supply is standard for all operating voltage requirements

BENEFIT:

Will withstand voltage and frequency fluctuation of ± 20%, and will operate under virtually all power systems and in extreme climates



FEATURE:

Sealed electronics that protect against dust and other contaminants

BENEFIT:

The "Waterfall" series can be operated in the harshest of conditions

FEATURE:

Innovative method of free-flow product transport

BENEFIT:

High throughput allows higher volumes of product to be sorted, and requires less moving parts than traditional "channel" and belt conveyance systems

FEATURE:

Expandable IGUAZU model is available in configurations of 3-7 trays

BENEFIT:

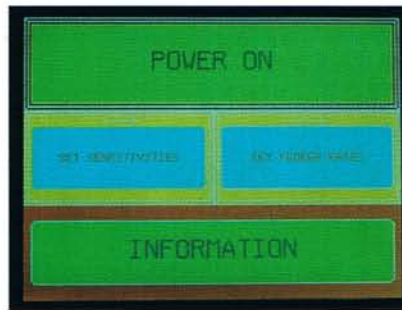
The equipment can be expanded to meet your increasing production needs

FEATURE:

Modular units; each sorting section is self-contained and has its own processor

BENEFIT:

Ensures flexibility and allows for future upgrades



Touch Screen is available on some "Waterfall" series models as an option. Graphical interface allows operators to monitor and control complex operations in real-time by simply touching the screen.

FEATURE:

Highly reliable, continuously operating machines can be run 24-hours per day. Machines can be interfaced with most Plant Automation Systems

BENEFIT:

Machines can operate without constant supervision, thus minimizing labor costs

DIMENSIONS

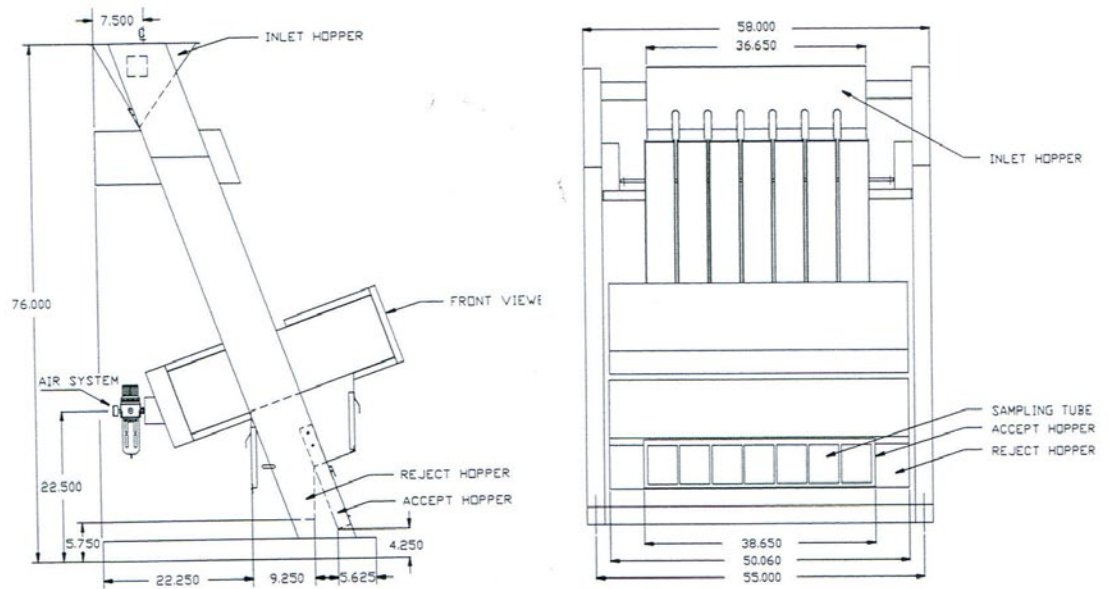
IGUAZU-PENTA, IGUAZU-WORLDSORTER

Available in 7, 6, 5, 4, 3, Trays (Same Frame)

IGUAZU-IR

Available in 6, 5, 4,
3 trays (Same Frame)

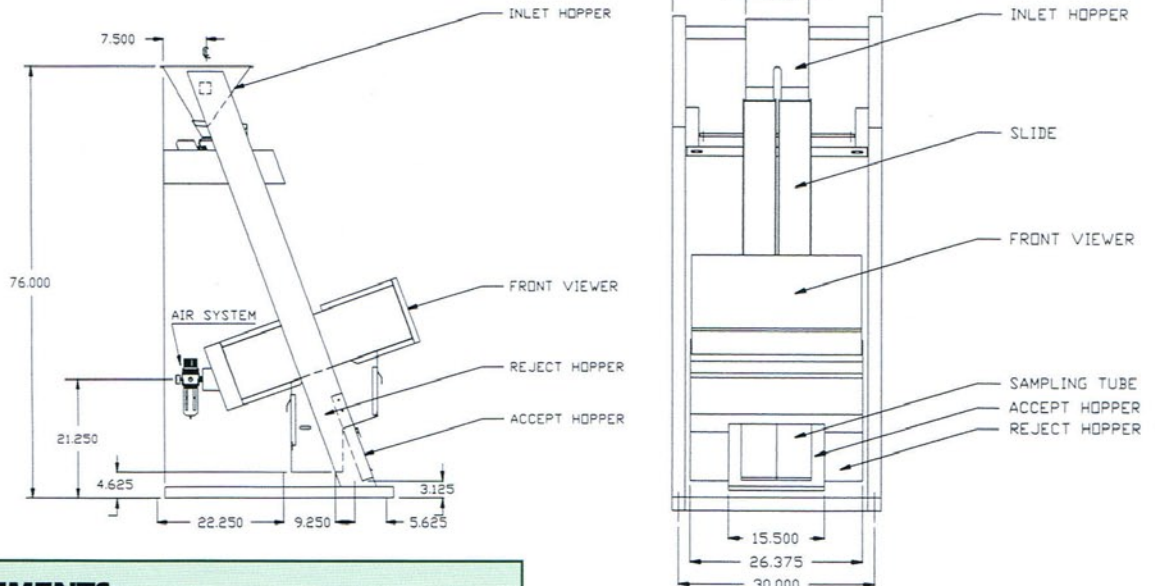
APPROX. WEIGHT/PESO
- 1300 Lbs.
590 Kg.



VICTORIA-PENTA, VICTORIA-IR, VICTORIA-WORLDSORTER

Available in 2 Trays

APPROX. WEIGHT/PESO
- 710 Lbs.
195 Kg.



OPERATING REQUIREMENTS:

ELECTRICAL:

100-125V or 180 - 250V
50/60 Hz. single phase power.
Consumption approx. 250w per tray

AIR:

15 cfm per tray @ 100 PSI
(340 Lts/min @ 7 bar)

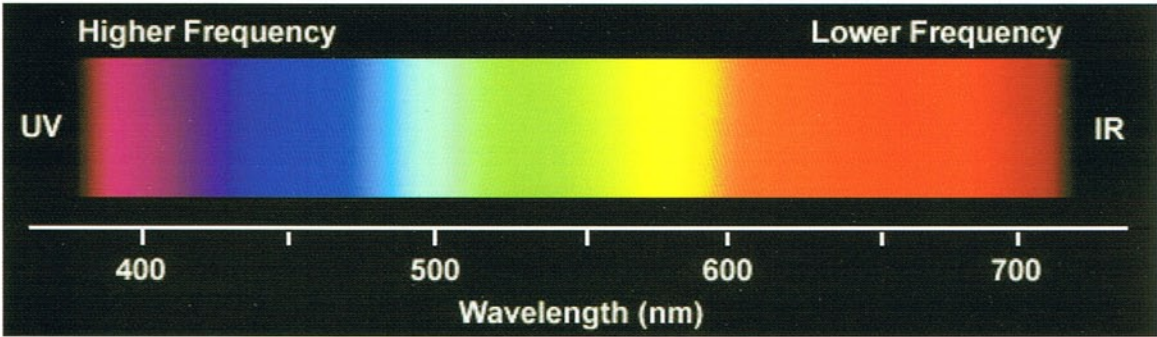
ALL DIMENSIONS ARE IN INCHES.

WATERFALL SERIES

Machine and Applications Guide

IGUAZU-IR™ INFRARED	IGUAZU-PENTA™ TRUE COLOR VISION	IGUAZU-WORLDSORTER™ MONOCHROMATIC
Sorts in one or two visible and invisible wavelengths of light	Sorts in three visible wavelengths of light and intensity	Sorts in one visible wavelength of light and near infrared
High capacity sorter where removal of foreign material is critical and when there is no visible color difference between desirable and undesirable product	High capacity sorter where tonal and true color separation is needed	High capacity compact and economical sorter for a wide variety of grains
Typical applications: Tree nuts, removal of foreign material and embedded shell; in-shell sunflower and removal of sclerotia; peanuts and removal of stones and other foreign matter	Typical applications: Washed arabica coffee; certain bean varieties; peanuts; certain tree nut applications and for sorting pistachios (in-shell and meats)	Typical Applications: Rice; sesame; small grains; seeds; oilseeds; beans; peanuts; tree nuts; robusta coffee and certain washed and natural arabica coffees

These are only a few of many other applications. Consult Delta Technology concerning your product and the machine that best suits your needs.



True Color Inspection System used in IGUAZU-PENTA™

Analyzes the spectrum and determines what is good or acceptable product and rejects all that is not within the definition of acceptable product. Sixteen million color combinations are possible.

About Delta Technology...

Founded by a group of dedicated engineers and businessmen in 1978, Delta Technology has emerged as world leader in its field. It is the oldest company of its type still operating under original ownership, and it remains headquartered at its original Houston address.

At Delta Technology, we're proud of our technological innovations and leadership position. We are a manufacturer, not an assembler. Our designs are our own innovations, and all metalworks, special components, coils, etc. are made under our own roof, in accordance with the strictest industrial standards. This guarantees that the quality products we manufacture will produce accurate results day after day, year after year.

Delta sorters are used throughout the world, and ensure precise results to their owners. Whether our customers' product be peas, peanuts, plastics, rice, coffee, sesame or any other granular product going to market, they can be assured that their commodity will meet the most rigid hygienic standards for purity and quality.

Providing customer satisfaction is the #1 goal at Delta Technology. Our company's concern for customers is evidenced by the network of trained field representatives that we have in over 50 countries. These individuals can be relied upon to be of assistance in providing advice and technical services.

Our subsidiary, Brasil Delta Tecnologia Eletrônica, is located in the State of São Paulo, and serves South America from a 3,000 sq. meter (over 30,000 sq. ft.) plant located in our 12 hectare industrial park. Like its parent company, Brasil Delta Tecnologia Eletrônica is dedicated to producing only the finest of products.

We believe that a successful company is one comprised of dedicated individuals. Delta is proud of its people and their contribution to our industry, and recognizes that they are the reason why our machines set the standards for quality and efficiency.

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Delta Technology Corporation follows a policy of continuous research and development and reserves the right to modify specifications, combinations, and accessories without incurring any obligation to modify machinery previously supplied.

Manufactured under one or more of the following patents owned by Delta Technology Corp:

U.S.A. Patent Nos.: 4,454,029/4,697,709/4,878,582/5,179,474/5,193,782/5,197,159
United Kingdom Patent Nos.: 2,180,060B/2,133,531 ■ Japan No.: 1,456,748
Mexico No.: 156,593 ■ Columbia No.: 022,489
Argentina No.: 238,651/242,920 ■ Brazil Nos.: P18604203/P18305481
Additional USA and foreign patents pending or issued.



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