

THE WORLD'S FIRST AIR CLASSIFIER CAPABLE OF PERFORMING SIMULTANEOUS MULTIPLE CLASSIFICATION OF FINE, DRY POWDER

Elcan Industries Inc.



Utilizing the Coanda Effect - a completely different operating principle from that of typical centrifugal classifiers- the Elbow-Jet will bring new levels of classification precision and efficiency to your

Ideal For Abrasive or High Purity Powders: The Elbow-Jet Air Classifier contains no rotating parts due to the fact it relies on air flow and

FEATURES

Simultaneous Multiple Classification

Aside from easily classifying two products, the Elbow-Jet Air Classifier can also do a triple classification with simultaneous fine and coarse cuts. It can even simultaneously classify four products!

Ultra-Fine Classification

The Elbow-Jet can handle powders ranging from 0.5 to 100um. It exhibits an especially high separation efficiency for particles ranging from 0.5 to 10 um.

Ease of Particle Size Control

Easily control and maintain particle size inside

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Precise Separations

Since agglomerated particles are completely dispersed by the compressed air at the ejector unit and fed immediately into the classifier, there is no worry of re-agglomeration in the unit. This results in a sharp, efficient, and very stable separation.

Simple Design

The lack of rotating parts in the equipment makes it very easy to clean and maintain the equipment.

No Rotating Parts

The lack of rotating parts inside the machine means less wear on components inside the machine. No classifier wheel almost completely eliminates the potential for metallic contamination. The Coanda Effect: "If a surface is placed near a freely flowing Jetstream, that Jetstream will flow along that surface." The Coanda Effect is extremely strong: even along the curved surface of the Coanda Block, the attractive force between the wall and injected particle stream continues for quite some

Classification Principle

An ejector unit accelerates particles before being injected by compressed air through a feed nozzle into the classifier. Then, by the Coanda Effect*, the Jetstream will tend to flow along the coanda block. Each particle injected into the classifier has an inertia dependent on its size (mass). The smaller particles, with little inertia, will be highly susceptible to the Coanda Effect and will flow along closer to the Coanda Block. The larger particles, with more inertia, will be less affected by the Coanda Effect and will fly farther out into the carrier air jet. Here, by setting moveable classifications edges as appropriate, particle can be classified by size with astonishing accuracy and efficiency.



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Lorem Ipsum



The following dimensions are based on a layout of equipment of standard specifications. Please contact us if your space is more limited.

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Model	Feed Capacity	Total Air Flow	Rated Power	LxWxH
	(kg/Hr)	(m3/min)	(kW)	(mm)
EJ Lab	5-Jan	2	2.5	1650x1050x1400
EJ Pure	15-Mar	2.7	4.5	1950x1540x1580
EJ-05-3S	Oct-70	6-Apr	12-Aug	2900x2900x3000
EJ-15-3S	30-200	15-Sep	16-23	4700x4000x3500
EJ-30-3S	60-400	14-24	20-38	5100x4300x4300
EJ-45-3S	90-600	20-33	23-46	5500x4500x4500
EJ-60-3S	120-800	25-42	31-56	6100x5200x5100
EJ-75-3S	150-1000	31-51	39-77	6500x5800x5500
EJ-90-3S	180-1200	36-61	45-86	6800x6000x5900
EJ-105-3S	210-1400	41-69	47-92	6900x6100x6000
EJ-150-3S	300-2000	58-96	77-112	7500x6600x6500

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