



Elscint Automation

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Criteria for selecting a Vibratory bowl feeder –

- Below is the comprehensive criteria to be considered while purchasing a vibratory bowl feeder. This is divided into –

- Product specific points
- Manufacture specific points

A. PRODUCT (VIBRATORY BOWL FEEDER) SPECIFIC –

1. Is the Vibratory Bowl Feeder FULL WAVE or HALF WAVE Operation?
 - a. Due to FULL WAVE Operation, the vibrations are smooth and Spring Breakage is nil as compared to HALF WAVE Operation, which leads to regular Spring Breakage / Bolt Breakage
 - b. FULL WAVE Vibratory Feeders **CONSUME 40% LESS ENERGY** as compared to HALF WAVE Vibratory Feeders.
2. Is a Step Type Bowl being offered or a Cylindrical Bowl?
 - a. CYLINDRICAL Bowls, which though cheaper, result in JAMMING of components and thus manual intervention every now and then.
 - b. Step Bowl offer better performance.
3. Is the Bowl either of Cast Al or Stainless Steel 304 Grade?
 - a. Cheaper 302 / 303 or Mild Steel Bowls do not last long and perform miserably after a period of time.
4. Is Argon Welding done or only Tack Welding is done?
 - a. TACK Welding reduces the performance of the Bowl Feeder after 6 to 8 months
5. Does the Bowl have sufficient “Ribs” below the tracks?
 - a. These improve the performance of the Bowl and also increase its life.
6. Are the Coils totally Encapsulated or Open.
 - a. Open Coils are not only lower in performance but also are very dangerous in operation.
7. Are **THREADED INSERTS** used in all Aluminium Castings?
8. Does the Vibratory Bowl Feeder have an overflow arrangement?
 - a. This can eliminate the need having a Sensor thus saving on cost.
 - b. It makes the Bowl Feeder more reliable.





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9. Does the Vibratory Bowl Feeder have a provide of “Window” to get the wrongly oriented components back into the Bowl or are those components taken into a separate tray for manually putting back into the Bowl?
 - a. Providing a separate tray for manually putting back wrongly oriented components into the Bowl unnecessarily increases manpower and defeats the whole idea of a having a Vibratory Bowl Feeder.
10. If there is a Gravity / Linear Track, is there a Sensor with Auto-Switch Off Facility?
 - a. This switches off the Vibratory Bowl Feeder when the track is full, thus saving on power and importantly noise.
11. Is any Lining / Coating being offered?
12. Does the Vibratory Bowl Feeder manufacturer guarantee against Spring Breakage?
13. Is the Lining / Coating Pasted or Sprayed or Rubber Molded?
 - a. Pasted Coating comes out (gets removed very early
 - b. Rubberised Coating does not last long and has a very bad finish (affecting smooth flow of components)
 - c. Sprayable Polyurethane Coating of 0.8 to 1.00 mm thickness is the best as it gives longer life and better result. This type of coating also reduces the Noise Level drastically.
14. What type of Finish is provided?
 - a. Buffed finish looks cheap and results in slipping of components on the tracks
 - b. Bead Blast Finish is the best and equivalent to European finish.
15. What is the Vibratory Controller being offered? Is it of an Indian or European Make? Is it having CE Marking? Does it have facility of **Voltage Compensation** and **OVERLOAD CUT-OFF**.
 - a. Due to Overload Cut-Off & Voltage Compensation, Coil burning problem is totally eliminated resulting in major savings on Spares.
 - b. Indian Makes have a lot of problems and are not stable over a period of time.
16. Is the Controller housed in either Polycarbonate / Sheet Metal Control Panel?
17. How many Fuses does the Vibrator Controller have?
 - a. It is better to provide 2 to 3 fuses as a safety measure
18. Does the Vibrator Controller Circuit have MOVs of sufficient rating?
 - a. This is an added safety measure.





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B. MANUFACTURER SPECIFIC POINTS –

1. Is the Vibratory Bowl Feeder manufacturer ISO Certified?
2. Does the Vibratory Bowl Feeder manufacturer issue Operating Instructions, Test / Inspection Reports?
3. Does the Vibratory Bowl Feeder manufacturer provide an Electrical Circuit Diagram with the supply?
4. Is proper Documentation of every Vibratory Bowl Feeder kept in case of any need in the future?
5. Are the Vibratory Bowl Feeders having CE Marking?
 - i. This ensures conformation to the stringent European Safety Norms
 - ii. This increases safety of the equipment
6. Does the Vibratory Bowl Feeder manufacturer export on a regular basis?
 - i. Exporting to European / other countries further stresses the quality of the manufacturer plus shows the price competitiveness in the global market.
7. How long is the Vibratory Bowl Feeder manufacturer in business? Will he last long enough to provide critical spares in the future?
8. Is the Vibratory Bowl Feeder Manufacturer financially strong enough to stay in business during recessionary times?
9. Are all the required Spares kept in Stock?
10. Does the Vibratory Bowl Feeder manufacturer provide a Tool Kit / Set with every Bowl Feeder?
 - I. This creates tremendous value for the customer in the time saved while searching for Tools for work on the Bowl Feeder, if need arises.
 - II. Just like a tool kit is important while purchasing a car, same is the case with respect to a Vibratory Bowl Feeder.





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11. Does the Vibratory Bowl Feeder manufacturer provide all types of Accessories like

- I. Stands
- II. Silos
- III. Escapement / Singulator
- IV. Linear Tracks / Gravity Tracks
- V. X-Y Table
- VI. Noise Enclosures
- VII. Hoppers
- VIII. Elevators

Using these Accessories makes things easy / faster while integrating the Vibratory Bowl Feeder with your Machine.

